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REPORT OF THE CHIEF

OF THE

MASSACHUSETTS DISTRICT POLICE,

FOR

THE YEAR ENDING DECEMBER 31, 1895.

INCLUDING

THE INSPECTION DEPARTMENT AND THE
DETECTIVE DEPARTMENT.

BOSTON :

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Commonwealth of Massachusetts.

OFFICE OF THE CHIEF OF THE DISTRICT POLICE,
BOSTON, Jan. 1, 1896.

To His Excellency FREDERIC T. GREENHALGE, *Governor of the Commonwealth.*

GOVERNOR: — I have the honor to submit a report of the duties performed by the District Police for the year ending Dec. 31, 1895.

Very respectfully, your obedient servant,

RUFUS R. WADE,
Chief of District Police.



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Commonwealth of Massachusetts.

REPORT.

In conformity to the requirements of the several acts prescribing the powers and duties of the Massachusetts District Police, and especially the statutes establishing this department, I herewith submit to Your Excellency a detailed statement of the operations of this department, which constitutes my seventeenth annual report.

The entire number of this force is forty-three. Thirteen officers are designated for service in the detective department, four for the inspection of uninsured steam boilers and to examine as to the competency of engineers and firemen operating the same, and the remainder are detailed for duty in the inspection department.

THE INSPECTION DEPARTMENT.

There are now twenty-six officers exclusively employed in the inspection department. Some idea of the extent and nature of the duties of the inspectors may be had by reference to the statutes defining them ; but not even the detailed reports of the several inspectors made to this office can give, to those not familiar with the matters discussed, an adequate idea of the vast amount of labor performed by this department. Its duties embrace the enforcement of the laws relating to the hours of labor ; the protection of operatives from unguarded machinery ; the employment of women and minors ; the schooling of children employed in factories and workshops ; the preservation of the health of females

employed in mechanical, manufacturing and mercantile establishments; reports of accidents in manufactories; safety appliances for elevators; provisions for escape from hotels and other buildings in case of fire; proper ventilation for factories and workshops, and uniform meal hours for children, young persons and women employed therein; the suppression of nuisances from drains, and provisions for water-closets, etc., for the use of each sex employed in factories and workshops, and various other sanitary regulations; the inspection of buildings alleged to be unsafe or dangerous to life or limb, in case of fire or otherwise; the submission to the inspector for approval of a copy of plans and specifications of any building designed for certain public purposes, as factory, workshop, mercantile structure, hotels, apartment houses, lodging or tenement houses, above a certain height; communication between engineer's room and each room where machinery is run by steam, in every manufacturing establishment; proper safeguards at hatchways, elevator openings and well-holes in public buildings, factories and mercantile establishments; forbidding the use of portable seats in aisles or passageways in public halls, theatres, school-houses, churches, public buildings, etc., during any service or entertainment held therein; requiring fire-resisting curtains, approved by inspectors, for use in all theatres, etc.; competent watchmen, lights in hotels, gongs or other proper alarms, and notices posted describing means of escape from fire in boarding and lodging houses above a fixed size, family and public hotels; fire-escapes on tenement or lodging houses three or more stories in height; prohibiting during working hours the locking of any inside or outside door of any building where operatives are employed; public buildings and school-houses, in respect to cleanliness, *suitable ventilation and sanitary conveniences*; the weekly payments of wages by certain corporations to each of their employees; the inspection of uninsured steam boilers; the examination as to the competency of engineers and firemen in charge thereof; the enforcement of the act relating to the manufacture and sale of clothing made in unhealthy places; the enforcement of the act relative to the heating of street railway cars; and the enforcement of the act requiring

specifications to be furnished to persons employed in cotton, worsted and woollen factories.

The enforcement of the laws relating to the hours of labor, the employment of children in manufacturing establishments, the inspection of factories and workshops and public buildings, etc., requires a special aptitude, which even wide experience in ordinary police service does not confer. The laws must be faithfully enforced, but firmness must be tempered with good judgment. The inspectors detailed for this special service have abundantly shown that they possess the requisite qualifications, and, while strictly enforcing these laws without fear or partiality, have so deported themselves as to win the respect and commendation of those with whom their official business has brought them in contact.

DETECTIVE DEPARTMENT.

The increase in crime, and especially in the number of burglaries, during the past year, in the towns throughout the Commonwealth, is a strong argument in favor of a force large enough to cope with the criminal work. That local town officers often fail to ferret out crime is not surprising, when it is considered that in a majority of cases the cities furnish the class that commit these depredations, and when undetected they return to their haunts.

The value of a State force operating under the authority and direction of the Executive of the Commonwealth has been so often insisted upon by successive governors and legislative committees, and testimony from district attorneys and other officials engaged in the suppression of crime and the apprehension of criminals has been so unanimous and emphatic as to the needs of such force, that argument now seems uncalled for. If such a force is composed of honest, faithful, capable men, its record ought to be satisfactory to the appointing power and to the citizens generally. Much of the work done by the officers of this force is of such a character that it cannot be presented in the form of statistics, nor summarized. The several district attorneys of the Commonwealth are empowered to call upon this office for aid in the investigation of criminal matters. This duty in-

volves also the securing of evidence and other preparation for the trial of cases. Every county, city and town is within the jurisdiction of each member of the district police, when acting under the instruction of the chief and detailed by him according to the necessities of the public service.

The district police is an efficient arm of the civil power, because of the concentration of responsibility and unity of action. The officers detailed for criminal work are men trained to the special requirements of detective work. And it is gratifying to be able to state that the members of this force have acted with discretion, and secured the respect and confidence of officials and the people of the State.

LABOR LEGISLATION IN MASSACHUSETTS.

Until one has familiarized himself with the history of what are often called the labor laws of our Commonwealth, he can have but an inadequate idea of the large field covered by legislation of this character.

Simply to limit the hours of labor in factories and workshops was the end originally sought for. It was the important first step in the scheme to regulate the economic relations between employer and employee. The wisest and most conservative leaders of what, for lack of a better name, we may call the labor movement, were prompt to disclaim any purpose to inaugurate a war against capital, aggregated or otherwise. It was declared that the sole object was to ameliorate the condition of working people employed in factories and workshops. It was true that the amount of wages paid was insufficient, but the hours of labor were too many, and to bring about a reduction of these was regarded as the principal achievement desired. What a contrast between that simple statute, passed within the lifetime of the present generation, and the whole body of laws which constitute what we denominate the labor laws, and which seek to regulate the relations between employers and the working people, men, women and children.

This class of legislation, while popularly supposed to be based almost literally upon the factory laws of England, is somewhat similar yet is far from being identical, — at least this is true of the labor laws of Massachusetts.

Those States in which manufacturing interests predominate or have become quite important have legislated along the general lines adopted in our own State. Similar statutes, so far as relates to time limitations of government employees, have been enacted by Congress. "Eight hours shall constitute a day's work for all laborers, workmen and mechanics who may be employed by or on behalf of the government of the United States."

It must be conceded by all who are conversant with the history of labor legislation in this country that Massachusetts leads in the attempt to ameliorate the condition of her working population. In no other State is the scope of such legislation so broad and its details so elaborate. Tested by experience, it would seem that the results aimed at have been in the main accomplished. It is not the least encouraging feature of the situation, that, while some of these statutes met with great opposition during the discussions that preceded their enactment, and were denounced as too radical, their enforcement produced little if any friction, and met with no serious obstruction. The manufacturers, their agents and superintendents, have shown that law-abiding spirit which is characteristic of American citizenship. There has been but little disposition shown to evade the law or impede its operations. I do not know of any considerable opposition to labor laws as they now exist.

When the laws relating to the employment and schooling of children in industrial establishments were under consideration, it was anticipated that manufacturers would combine to annul or disregard them. It was made so evident that such restrictive measures were needed, that not only did mill owners and agents acquiesce in the changes, but they would now be the foremost to resist their repeal. Twenty years ago there was scarcely a corporation in our largest manufacturing centres which did not employ children under ten years of age. Nor were the mill agents and overseers entirely to blame. The parents in many instances clamored for employment of child labor, and not in every case was necessity of additional income the impelling cause of such clamor. It was often due to indifference to the child's welfare, inordinate greed and ignorance of the evils

involved. The enemies of labor legislation, when it is based upon well-ascertained facts and does not disregard the wisest economic principles, are not the enlightened and public-spirited class of manufacturers. These men know that when their operatives are fairly compensated, well fed, clothed and housed, there is security for business success and permanency.

The requirements of sanitary science in factories and workshops are as much in the interests of the employer as of the working people.

The legislation respecting the employment of minors and women is universally regarded as humane and just, and for such reasons, aside from other considerations, meets with no opposition from any source. If complaints are made to the inspectors of infractions of these statutes, it is often found that they are caused by ignorance of the provisions of the law or possibly inadvertence. What is meant is, that there is a general and cheerful compliance with such laws. Perhaps the best testimony in favor of the good spirit shown by employers generally in these matters would be found in their attitude towards sanitary inspection. Questions of expense are not allowed to determine their action in cases which involve the morals and health of their working people, and especially of women and children.

It is a matter of record that the discreet and intelligent inspection of our officers has been frequently commended by the manufacturers and all others conversant with the facts. Any system of factory inspection must be a failure if it is not judiciously administered by competent persons. An inspector who magnified his office, or treated all suspected persons as convicted criminals, or assumed an arbitrary and offensive attitude in the discharge of his duties, would soon lose his influence, and for the good of the service would find it necessary to change his occupation.

It must not be assumed, from anything that has been stated herein, that there is any urgent demand for additional legislation in the direction of sanitary improvement of factories and workshops. The general health conditions, so far as these can be affected by legislation, are excellent. If the provisions of existing laws are faithfully and impartially

executed, there can be no reasonable cause for complaint. There may be special trades whose operations involve more than the average risk of health; but even these have been brought under restrictions which reduce their dangers to the minimum.

It may be said that there are influences detrimental to health in most in-door employments; but it remains true that, apart from that disregard for health which is but peculiar to any class or occupation, and is shared alike by rich and poor, industrious and idle, the liability to sickness and accidents has been greatly lessened. The more general diffusion of intelligence, and other causes that have been already assigned, account for this improvement. Perhaps no better authority can be found than that of the Hon. Carroll D. Wright, who, in his report on the factory system, published as a part of the report of the textile census, used the following suggestive words: "If some means could be devised to make all the homes of the operatives as neat, clean and wholesome as the factory, we should hear no more about the tendency of the factory to physical degeneracy." My own conclusion is, that factory operatives may be as healthy as any other class engaged in mechanical pursuits; that, if they are not so, it is owing to one of two causes, or the two combined, viz., too severe labor imposed or bad sanitary conditions of home.

The discussions in the Legislature, on the rostrum and in the newspapers have made it apparent that the arguments in behalf of restrictive labor laws are sometimes based almost wholly upon humanitarian considerations. What is best for the health and morals of the operatives is the sole inquiry; whether the proposed measures are beneficial or disastrous to the industrial interests to be affected seems to weigh but little in the minds of some; to secure proper sanitary conditions for the working people at any cost, and let financial results to the manufacturing interests take care of themselves. On the other hand, the strictly economic considerations seem to be the only aspect in which some regard the subject. Will the productive power of Massachusetts be diminished by shortening the hours of labor, and by treating operatives as if they were of superior consequence to the

machinery they operate? Is the regulation of labor in our manufacturing and mechanical establishments upon any other basis than that of profit and loss? Eliminate all sanitary considerations, and what questions remain but those of industrial success or failure?

It must not be readily assumed that better health conditions are impossible for women and children employed in factories. The strict enforcement of existing statutes has wrought material and gratifying improvements in their industrial conditions. The question remains, however, whether the age limit in the case of children might not be raised without detriment to any interest involved.

WEAVERS' PARTICULARS BILL.

[CHAPTER 144, ACTS OF 1895.]

AN ACT REQUIRING SPECIFICATIONS TO BE FURNISHED TO PERSONS EMPLOYED IN COTTON, WORSTED AND WOOLEN FACTORIES.

Be it enacted, etc., as follows:

SECTION 1. The occupier or manager of every textile factory shall post in every room where any employees work by the job, in legible writing or printing, and in sufficient numbers to be easily accessible to such employees, specifications of the character of each kind of work to be done by them, and the rate of compensation. Such specifications in the case of weaving rooms shall state the intended or maximum length or weight of a cut or piece, the count per inch of reed, and the number of picks per inch, and the price per cut or piece, or per pound; or, if payment is made per pick or per yard, the price per pick or per yard; and each warp shall bear a designating ticket or mark of identification. In roving or spinning rooms the number of roving or yarn and the price per hank for each size of machine shall be stated; and each machine shall bear a ticket stating the number of the roving or yarn made upon it.

SECT. 2. Any occupier or manager of a textile factory who fails to comply with the provisions of the preceding section shall for the first offence be punished by fine of not less than twenty-five dollars nor more than fifty dollars, and for each subsequent offence by fine of not less than fifty dollars nor more than one hundred dollars.

SECT. 3. The members of the inspection department of the district police force shall enforce the provisions of this act.

SECT. 4. All acts inconsistent herewith are hereby repealed.
[Approved March 19, 1895.]

The foregoing act was approved March 19, 1895. As soon thereafter as practicable the necessary orders were issued by me to the officers of the inspection department assigned to this important duty to make careful investigation throughout their respective districts, and to promptly report in detail all facts relating to the subject covered by the statute. Controversies have arisen as to the proper construction of certain provisions of the law, but I have seen no evidence of intentional evasion of the statute. It is certainly creditable to the managers of these vast industrial interests that they have so generally complied with the statute.

INSPECTION OF STEAM BOILERS.

In my report of 1893 I took occasion to recommend the enactment of a law providing for the inspection of uninsured boilers, the licensing of all persons in charge thereof and the appointment of additional inspectors to perform the duties of boiler inspection. The Legislature of 1894 reported adversely to legislation, and the subject was again brought to the attention of the Legislature of 1895. The result of the inspections made by the inspector was of the greatest importance, and suggested the imperative need of protection from possible danger; and the following act, relating to the inspection of steam boilers, was enacted. It reads as follows:—

[CHAPTER 418, ACTS OF 1895.]

AN ACT RELATIVE TO THE INSPECTION OF STEAM BOILERS.

Be it enacted, etc., as follows:

SECTION 1. It shall be the duty of every corporation, firm or individual, owning or using, or causing to be used, within this Commonwealth, a steam boiler or boilers (excepting boilers upon locomotives, boilers in private residences, boilers under the jurisdiction of the United States, boilers that are under the periodically guaranteed inspection of companies that have complied with all the laws of this Commonwealth, boilers used exclusively for agricultural, horticultural and creamery purposes, or boilers of less than three horse power), within sixty days after the passage of this act, and annually thereafter, to report to the chief of the district police the location of such steam boiler or boilers.

SECT. 2. Each of the boilers designated in section one shall be inspected by the inspector of boilers for the district in which said boiler or boilers is located, as thoroughly as in the judgment of the inspector is necessary, and if the inspector so directs, it shall be the duty of the owner or user to have the boiler or boilers blown off dry, and the man-hole and the man-hole covers thereon removed, ready for inspection upon the day designated by the inspector, the inspector giving the owner or user of said boiler or boilers fourteen days notice in writing of the day upon which he will make such internal inspection, provided that such inspection shall not be required oftener than twice a year.

SECT. 3. If upon examination said inspector shall find the boiler inspected to be worthy and in safe working order, with the fittings necessary to safety, and properly set up, he shall grant to the owner or user of such boiler or boilers a certificate of inspection, and upon receipt of such certificate said owner or user shall be permitted to use the boiler or boilers mentioned in the certificate. And if in said inspection the inspector shall find that the boiler is not in safe condition, or not provided with fittings necessary to safety, or with fittings not properly arranged, he shall withhold his certificate until the boiler and fittings are put in condition satisfactory to him; and it shall be unlawful for any owner or user to then operate or cause to be operated such steam boiler until the inspector has granted his certificate, and the owner or user operating such boiler without said certificate may be enjoined from such use, in a proceeding to be had before the superior court or the supreme judicial court, at the instance of the inspector, with the approval of the chief of the district police; and upon the filing of a petition therefor any judge or justice of the court in which said proceeding is pending may issue a temporary injunction or restraining order, as provided in proceedings in equity.

SECT. 4. If upon such inspection the inspector finds that the owner or user of any steam boiler is putting too much pressure upon the same the inspector shall have the power to fix the maximum pressure to be allowed to be carried by said boiler, and shall adopt, and the owner or user shall place or cause to be placed upon said boiler, such device as the inspector shall deem expedient to prevent the boiler from carrying any greater than the maximum pressure designated, said device to be approved by the chief of the district police; and no person shall in any manner tamper with such device, or load the safety valve to a greater pressure than that allowed by the inspector, as hereinbefore provided.

SECT. 5. The owner or user of a boiler or boilers coming under the provisions of this act shall pay to the inspector at each

inspection the sum of two dollars for each boiler inspected. All sums paid as aforesaid shall be paid over by him monthly to the treasurer of the Commonwealth.

SECT. 6. The chief of the district police is hereby authorized to adopt such rules and regulations, to be approved by the governor, as may be necessary to properly enforce this act.

SECT. 7. All persons violating any of the provisions of this act shall upon conviction be punished by a fine not exceeding five hundred dollars or by imprisonment not exceeding six months, or both, at the discretion of the court.

SECT. 8. The governor is hereby authorized to appoint three additional members to the inspection department of the district police qualified to perform the duties required by this act, who shall each receive an annual salary of fifteen hundred dollars and their actual travelling and necessary expenses.

SECT. 9. This act shall take effect upon its passage. [*Approved May 29, 1895.*]

The above legislation was further strengthened by the following act, to regulate steam engineering : —

[CHAPTER 471, ACTS OF 1895.]

AN ACT TO REGULATE STEAM ENGINEERING.

Be it enacted, etc., as follows :

SECTION 1. It shall be unlawful for any person to have charge of or to operate a steam boiler or engine in this Commonwealth, except locomotive boilers and engines, boilers in private residences, boilers under the jurisdiction of the United States, and boilers used for agricultural purposes exclusively or of less than eight horse power, unless he holds a license as hereinafter provided ; and it shall be unlawful for any owner or user of any steam boiler or engine, other than those above excepted, to operate or cause to be operated a steam boiler or engine for a period of more than one week without a duly licensed engineer or fireman in charge.

SECT. 2. Any person desiring to act as an engineer or fireman shall make application to so act to an examiner of engineers, upon blanks furnished by the examiner, and if upon examination the applicant is found trustworthy and competent a license shall be granted to said applicant to have charge of or to operate such steam plants as the examiner may find him qualified to have in keeping. Such license shall continue in force for three years unless after proper hearing it is sooner revoked, for intoxication

or other sufficient cause, and may be renewed every three years on application to the authority granting the same, or at such time as may be determined by said authority.

SECT. 3. Licenses shall be granted according to the competency of the applicant, and shall be divided into classes as follows:—
First Class. Engineers' licenses of this class shall be unlimited as to horse power. Second class. Engineers' licenses of this class shall be limited to one hundred and fifty horse power. Third class. Engineers' licenses of this class shall be limited to fifty horse power. A fireman's license shall be issued to any person who, after having passed an examination, as herein provided, shall have been found competent to take charge of or to operate any steam boiler or boilers. Any person desiring to operate any particular steam plant may so state to the examiner, and he shall be examined as to his fitness to operate that particular plant, and if found competent and trustworthy shall be granted a license, termed a special license, for that particular plant, and such license shall be in force for three years.

SECT. 4. The fee for examination for applicants for license shall be one dollar, to be paid at the time of the application for examination, and one dollar for each renewal of license. All sums paid as aforesaid shall be received by the examiner, and shall be paid over by him monthly to the treasurer of the Commonwealth if such examiner is a member of the district police, otherwise to the treasurer of the town or city by which such examiner is employed.

SECT. 5. The members of the boiler inspection department of the district police shall act as examiners and enforce the provisions of this act.

SECT. 6. It shall be the duty of the examiners to notify every person operating a boiler or engine mentioned in section one and not included among the exceptions therein specified, to apply for a license under this act and to give such person a reasonable opportunity to take an examination therefor within the town or city in which he is engaged in operating such boiler or engine. The examiner shall issue a license or shall notify the applicant of his rejection within forty-eight hours after his examination.

SECT. 7. Any person dissatisfied with the action of an examiner in refusing or in revoking a license may appeal to the chief of the district police, whose decision shall be final.

SECT. 8. Whoever, after being notified as provided in section six, intentionally violates the provisions of section one of this act shall be punished by fine not exceeding three hundred dollars or by imprisonment not exceeding three months.

SECT. 9. This act shall take effect on the first day of August in the year eighteen hundred and ninety-five, and any person applying for a license as engineer or fireman on or before that date shall be deemed to have complied with the provisions of this act until his application is passed upon or rejected by the proper authorities. [*Approved June 5, 1895.*]

In my last report this subject was presented at considerable length, and the facts given demonstrated why legislation should be enacted.

It is a wise provision of the law to require persons engaged in this mechanical art to be obliged to pass an examination as to their qualifications to engage in this employment. It reduces to a minimum the liability to accidents from boiler explosions, and exacts positive evidence of the ability and integrity of engineers and firemen operating steam boilers. Since the passage of the statute the inspectors assigned to this special duty have found persons acting as steam engineers who knew absolutely nothing of steam-generating apparatus except to shovel coal or open or close the throttle. The United States government has thought it necessary to cause marine engineers to attain a certain standard of ability before being entrusted with the lives of persons who travel by water; and it is but just that some safeguard should be thrown around those who labor within our factories and workshops, or are sheltered in our hotels, asylums, institutions and school buildings.

Judging from the reports of the various inspectors, no important difficulty has been met with in the enforcement of these two laws. The law requires that all boilers not periodically inspected shall be reported to me for inspection, and very many of these boilers have not been reported, and the inspectors have spent considerable time in looking up these delinquents; but in the majority of instances the owners apparently had not heard of this requirement of the law, and complied instantly when their attention was officially called to the matter.

The large amount of labor attendant upon receiving and acknowledging and caring for the applications of those engineers and firemen who desired to apply for a license before the first of August (fourteen thousand being received) delayed

somewhat the work of boiler inspection; but enough has been accomplished to show the importance and great benefit of the law, and the work is now well mapped out for carrying the work of inspection forward with the best results.

I do not understand the boiler-inspection law to mean that the State desired to obtain a monopoly of boiler inspection, but merely to see that all boilers receive regular and efficient inspection from some reliable source, and are not allowed to run year after year in a dangerous condition with no knowledge on the part of any one as to what condition the boilers are in. That this has been the case my reports of previous years have clearly shown; and many of these dangerous and neglected boilers have been found and inspected, and their use ordered discontinued, or such repairs made as would make them safe. Very many of the owners of these neglected boilers have now decided, since the boilers must be inspected, to have the work done by the regular boiler inspection companies instead of by this department. It is to be noted that the inspection companies have found many of these boilers not to be in safe condition, and have refused to guarantee them until extensively repaired or run at a lower pressure, and in many cases ordered new boilers. This law of itself, therefore, has brought about these safer boilers and conditions in many factories; yet the full benefit of the law can never appear in the detailed reports of this department. It is to be noted, further, that in some instances where the inspection companies declared boilers to be unsafe and run at an excessively high pressure, the owners declined to accept the report, and will continue to run the boilers, even though informed of their true condition. These boilers, however, come under the State supervision, and where before there was no means of shutting down these dangerous boilers, this law provides the means of forcing the use of a safer boiler if the State inspector upon his inspection finds that the boiler is dangerous.

One fact has been very strongly brought to light by the enforcement of this law, that a very large number of school-house boilers throughout the State have been absolutely without inspection of any kind for many years. Many of the reports giving location of these boilers have stated that

the writers could not find out that the boilers had ever been inspected since put in. Whether this is due to the conflict of authority over the school-house property that seems to exist in some places between the public buildings department and the school committee, or to some other cause, the boilers appear to have been left to take care of themselves. In some places the authority over the boilers appears to be vested in the buildings department, but the janitors are controlled by the school committee; and much of the poor condition of the boilers was due to neglect or ignorance on the part of the janitors, which might have been overcome had both buildings and attendants been controlled by one head. As the matter now stands, the law compels the inspection of the boilers, and where they come under this department it will be strictly enforced; and at the same time the license law compels the appointment of competent janitors, and gives the inspector the power to revoke these licenses for neglect; so that not only will the boilers be looked after, but there must be competent janitors, and no neglect of boilers will be allowed.

The poor condition in which the boilers were found in the public buildings of the city of Waltham has not proved to be an exception. So far as the authorities knew, these boilers had never been inspected. Two were found unfit for use and removed, and extensive and necessary repairs ordered upon the others. Upon some the safety valve was found to be stuck solid and totally useless in case of emergency, and upon others the connections were wasted away to the thinness of paper. But for the existence of this law there is no knowledge how long this condition of affairs would continue, and probably it would have resulted in an accident more fatal than the one that wrecked the school-house at Uxbridge referred to in my last year's report. In other places school boilers were found unfit for use, or many repairs ordered upon them.

Many instances could be cited of dangerous boilers that have been found by the inspectors, and some of them are given in the detailed reports. In some instances it has been found that the boilers were entirely beyond repair, and the owners were ordered to discontinue their use; while in other

cases safety was obtained by repairing the defective portions or by reducing the pressure to a safe point.

The law for the licensing of engineers I believe is being fully complied with. Up to this time over twelve thousand engineers and firemen have applied for licenses to operate boilers and engines. It will take some time to examine this large number, but the law provided that all who should apply before August 1 should be deemed to have complied with the provisions of the law until examined. The detailed reports of the inspectors show what has been done in the examining work, and the number of licenses granted and the number refused.

The examinations have been of a strictly practical nature, bearing solely upon the safety of the boiler, engine and shafting; yet it has been found that quite a large number are not possessed of the knowledge of even the simplest rules of safety about a boiler, many of them, too, operating steam plants; and these men have not been allowed to continue until they can learn the simple rules required, and which it is simply not possible for some of them to learn.

In some cases the inspectors have found men intoxicated in their boiler rooms, and have revoked their licenses. There is no greater menace to public safety than the drunken engineer or fireman. One of the large newspapers in this city had recently an experience with one that was startling. The man was drunk, the boiler nearly empty of water, and the engineer about to put water into it when his condition was discovered and a policeman called to eject him. One of the men whose license was revoked for intoxication was found by the inspector in a hotel in Boston so much under the influence of liquor that he could not tell how much pressure he had on his boiler. Within a few weeks a boiler in a Denver hotel was exploded by a drunken engineer and a dozen or more innocent people killed. In these places particularly the best of engineers ought to be employed; yet it is a fact that many of the hotels are found to have ignorant men in charge of the boiler, frequently not sober men, and many of them expect that the engineer is to take care of the boiler and do a considerable amount of the porter work about the house. There is nothing in the law that

compels an engineer to stay about his boiler when in operation; but there is a provision that gives the inspector the power to revoke a license for neglect. Where the engineer in these hotels is compelled to do outside work to the neglect of his plant, no license will be granted to any person to operate the boiler if he so neglects it.

School-house boilers are also subject to this neglect. It is not absolutely required that a janitor shall not leave his boiler room; but the practice of some janitors, of building a heavy fire and leaving the building at 9 o'clock not to return until after 12, is strongly to be condemned. Such a case was reported to me by the inspector as existing in Wilmington, but fortunately resulted in no more than a few scratches and bruises to the scholars. The practice of the janitor was to build a good fire and leave the building before 9 o'clock, with about twenty pounds of steam on, depending upon his judgment as to whether the day would turn out warm or cold. One day last spring the boiler was so left, but the day turned out warmer than he expected, and the teachers shut off the steam from the radiators. The natural result was that the steam was bottled up in the boiler and main steam pipes, with no use for it, and a pretty hot fire. When the janitor returned, according to his usual custom, at 12 o'clock or thereabouts, he noticed a heavy pressure on the boiler, how high he could not tell, as the gauge registered as high as it could, and the safety valve was stuck. Instead of easing off the pressure as gently as he could, the janitor took the poker and lifted the safety valve from its seat. Instantly the pent-up steam filled the cellar with a tremendous roar and found its way up-stairs, frightening the scholars so badly that they rushed from the building in a panic, but fortunately seriously injuring none beyond a few scratches and bruises. Such a condition of affairs is possible in any school where the boiler is so long neglected; and, although there is no provision in the law stating how long a janitor shall be absent from a building, yet such a length of absence is nothing but neglect. The janitor, however, who does not know enough not to open a safety valve with such an excess of pressure, will not be granted a license until he does learn what to do in such cases. This is but one of many cases showing the importance of the law.

Summary of Examinations.

	Applications Received.	Applicants Examined.	Licenses Granted.	Licenses Refused.
First,	1,954	231	126	1
Second,	2,082	178	111	4
Third,	2,739	227	199	5
Special,	2,201	233	371	8
Fireman,	4,690	661	678	18
Hoisting,	487	75	84	0
Total,	14,153	1,605	1,569	36

Summary of Inspections.

Boilers inspected,	306
Number of defects found,	446
Number of defects dangerous,	268
Boilers ordered repaired,	128
Boilers condemned,	15

Another act of the Legislature which enlightened experience had shown to be necessary is here inserted. Sections 25 and 26 of chapter 481 of the Acts of 1894 are as follows:—

SECT. 25. No building designed to be used, in whole or in part, as a public building, public or private institution, school-house, church, theatre, public hall, place of assemblage or place of public resort, and no building more than two stories in height designed to be used above the second story, in whole or in part, as a factory, workshop, or mercantile or other establishment, and having accommodations for ten or more employees above said story, and no building more than two stories in height designed to be used above the second story, in whole or in part, as a hotel, family hotel, apartment house, boarding house, lodging house or tenement house, and having ten or more rooms above said story, shall hereafter be erected until a copy of the plans of such building has been deposited with the inspector of factories and public buildings for the district in which such building is to be located, by the person causing the erection or construction of such building, or by the architect who has drawn such plans, which plans shall include therein the system or method of ventilation provided for such building, together with a copy of such portion of the speci-

cations of such building as such inspector may require, nor shall any such building be so erected without the provision of sufficient ways of egress and other means of escape from fire, properly located and constructed. The certificate of the inspector above named, endorsed with the approval of the chief of the district police force, shall be conclusive evidence of a compliance with the provisions of this act: *provided*, that after the granting of such certificate no change is made in the plans or specifications of such ways of egress and means of escape unless a new certificate is obtained therefor. Such inspector may require that proper fire stops shall be provided in the floors, walls and partitions of such buildings, and may make such further requirements as may be necessary or proper to prevent the spread of fire therein or its communication from any steam boiler or heating apparatus; and no pipe for conveying hot air or steam in such building shall be placed nearer than one inch to any woodwork, unless protected to the satisfaction of such inspector by suitable guards or casings of incombustible material, and no wooden flue or air duct for heating or ventilating purposes shall be placed in any such building.

SECT. 26. Any person erecting or constructing a building, or any architect or other person who shall draw plans or specifications, or superintend the erection or construction of a building, in violation of the provisions of this act, shall be punished by a fine of not less than fifty nor more than one thousand dollars, and such erection or construction may be enjoined in a proceeding to be had before the superior or supreme judicial court at the instance of the inspector above named, and upon the filing of a petition for such injunction any justice of the court may issue a temporary injunction or restraining order, as provided in proceedings in equity.

It must be obvious that the efficient enforcement of the above provisions of the statute depends much upon the experience and fitness of the inspector assigned to this special duty. It may be said in a greater or less degree of these inspectors that they are experts in the knowledge of the construction of buildings. Some of them have been practical builders of considerable experience, and all of them have made themselves thoroughly acquainted with their duties and are faithful and reliable. Experience familiar to all connected with the examination of plans of buildings to be erected, especially those designated in the foregoing statute, shows how important as a measure of safety, both

to property and life, such a law may be, to prevent the spread of fire in buildings. The most that legislation can do to protect human life from such perils is to enforce such provisions as the foregoing. To insure uniformity in the requirements of chapter 481, Acts of 1894, the following general specifications for means of preventing spread of fire in buildings have been issued, and in every case a strict compliance is required : —

All elevator wells and light shafts, unless built of brick, must be filled between the studs with fire-proof materials, and lined with metal or plastered on metallic lathing, as may be directed by the inspector.

Elevator doors and casings to be metal lined.

Where floor beams rest on partition caps or on girders or wall girts, fill in between such beams, from the caps, girders or girts to the lining floor above, solid, with brick and mortar or other fire-proof material.

Also, on the sills of wooden buildings, fill in, as above, between the floor beams to three inches above the plaster ground.

Fill the space between the furrings on the outside brick walls of each story for a width of five inches below the ceiling with mortar flush with the furrings. Also fill in between the partition studs around the hallways and also other main partitions to the height of three inches above the lower line of the plastering, with mortar, brick or other fire-proof material.

Where a building is occupied above the first floor for any purpose which renders it subject to the provisions of chapter 481 of the Acts of 1894, and the lower story is occupied for stores, or other purposes not connected with the upper floors, the stairways leading to such upper floors must be enclosed with brick walls or with wooden partitions filled solid with brick laid in mortar, or other fire-proof material, and plastered on both sides on metallic lathing.

The soffits of all stairs should be plastered on metallic lathing.

Also all long flights of stairs to have two smoke-stops in each, these smoke and fire stops to be constructed by cutting in false risers and nailing five-eighths-inch perpendicular strips on the back side of these risers, and lathed with wire lath properly fastened to the wire lathing on the under side of stairs, plastered on both sides and left smoke-tight.

No wooden flue or air duct is to be used for heating or ventilating purposes.

No pipes for conveying hot air or steam to be placed nearer than one inch to any woodwork.

All chimneys to be plastered with one good coat of brown mortar on the outside of brickwork, from cellar to roof ; and a space of at least one inch to be left between all woodwork and the brickwork around the chimneys, also around all hot-air and steam pipes ; these spaces around chimneys and pipes to be stopped with metal.

All channels and pockets for gas, water and soil pipes to be made smoke-tight at each floor.

The entire cellar ceilings of school-houses, and other buildings used for public purposes, should be plastered on metallic lathing, and the ceiling over furnaces or boilers should always be plastered on such lathing, said plastering to extend at least six feet in front of feed door and two feet on each side of furnace or boiler casing. There should be not less than one foot in height of open air space between the tops of furnace or boiler casing and the ceiling.

Plaster on metallic lathing over all stacks of indirect radiators in addition to galvanized-iron or other metallic casing.

These specifications are to be followed in every building, subject to the provisions of section 25 of chapter 481 of the Acts of 1894, unless omitted in some part by special consent of the inspector.

CHILD LABOR AND CHILD EDUCATION.

Whatever changes of policy and of administration have prevailed in the course of legislation in Massachusetts respecting the interest of the so-called laboring classes, and their protection from greed and adverse conditions, upon one line progress has been uniform and inflexible. Since the earliest statute bearing upon child labor, the policy of the Commonwealth has been undeviating. It has sought to restrict within proper limits the hours devoted to such labor. It has demanded the utmost measure of care for the health of youthful toilers. It has insisted upon compliance with such sanitary provisions as have been attested by wisdom and experience. It has required the highest possible standard of schooling, to the end that, if degrees of intellectual training must exist, they shall not be for the benefit exclusively of the more favored children of the community. The doors of opportunity must swing wide open to the approach of all alike. The necessity to labor must not involve the total loss of school privileges nor their enjoyment under conditions

that defeat the objects sought. The Public Statutes prescribe the period during which children of certain ages, whether employed or unemployed, shall attend school. The intention of the law is manifest. There are no exceptions to its main requirements that the children of the State must receive a suitable training at least in the elementary branches of an English education.

The competitions of business, the actual or supposed needs of the family in individual instances, the greed of avarice, the development of machinery, making child labor more available, where formerly only that of adults was desired, —all combined fail as reasons why the Commonwealth shall modify its settled policy to secure at all costs the mental and physical welfare of the younger generation. The average of school attendance from year to year shows how well this wise policy has been enforced throughout Massachusetts, and the results are as manifest in the manufacturing as in the agricultural districts. It might almost be said without exaggeration that the State exists chiefly for the protection, training and culture of its children. What it shall be in the next decade or two depends largely upon its treatment now of the youth within its borders.

When we enumerate the elements of our material wealth and catalogue the resources by which we measure our standing in the sisterhood of States, our factories and farms, our workshops and industrial establishments, are the principal features upon which we rely to establish our rank. But even these evidences and results cannot be traced to the efforts of ignorant and untrained labor.

Had the Commonwealth not entered upon and steadfastly adhered to its fundamental scheme of schooling for all the people, without discrimination, its history would have been of a character to indicate decay in all the attributes that constitute a happy and contented people. The results of the legislation referred to have amply justified its wisdom and imperative necessity.

The problem of education includes much more than the subjects to be studied and the methods of instruction. These are of great value and cannot be disregarded in any rational views of child training. But it is a fundamental

necessity that suitable physical conditions shall be secured, and that the child shall be protected from the ills and dangers to which he is always liable. It is not possible, even if it were desirable, that the entire primary education of children shall be provided for in their respective homes. Many are compelled, apparently, to begin labor at an early age. Their opportunities for school instruction are limited. The State says in effect that under certain restrictions as to hours of labor and of schooling they may be employed in suitable occupations. Whatever may be the ideal conditions for child education, the actual ones with which we have to deal require that they shall be grouped. In buildings intended to be convenient and safe they spend a considerable portion of their lives. Incessant care must be taken to keep the air of these school-rooms uncontaminated; for, even if the children are healthy, the ordinary exhalations from the lungs and skin make the air foul and unfit for breathing again. The dulness, restlessness and similar symptoms seen too frequently in the school-room plainly show that something is wrong. They are danger signals, and indicate the imperative necessity of immediate action. If there should be a single case of contagious disease, the peril becomes more alarming. Contact with one another's hands and clothing is not the chief source of danger. The books and other material used in instruction sometimes carry the germs of disease. The odor that lingers about the small unventilated coat rooms or closets is a significant feature of the average school-house.

But the sanitary arrangements of the building, their conditions as to cleanliness and dryness, the means of introducing pure air and expelling that which is vitiated are matters regulated by legislation. As populations increase and become more dense it becomes more difficult to keep pace with the most advanced scientific requirements as to ventilation of these structures. Overcrowding is liable to increase and become a permanent condition until it is accepted as inevitable. We can only hold up the standard and insist that it must not be lowered to expediency or public clamor. *We know more than we did about properly ventilated school-houses, and therefore have less excuse to submit to unfit ones.*

There is one fact which stands to the credit of the Commonwealth, and that is, that it makes absolutely no discrimination among the people within its borders in dispensing the blessings of a common-school education. The child of the latest immigrant that lands here, incapable of speaking a word of our language, has precisely the same right to schooling at the public expense that is possessed by the children of our wealthiest citizens. The greatness of the school system of Massachusetts is in its equality, in the just and equal privileges given to all. That system of education is like a fountain at which all may drink and receive the blessings of life. The best mental training that can be afforded by our common schools is none too good for these children, a part of whose early years must be spent in the factory and workshop. The elements of education must be secured to them contemporaneously with their days of labor, and the authority and power of the Commonwealth are pledged to secure that result.

TENEMENT-HOUSE CLOTHING.

No more serious problem has developed in recent years in connection with what is called the labor question than that relating to the manufacture of clothing in tenement-houses. The sweat-shop system had made such rapid strides in Boston and some of the other cities of the Commonwealth, and had bred such serious evils, that it attracted general attention in the newspapers and Legislature. Vigorous steps have been taken, by prosecutions and otherwise, to suppress these evils, and the laws have not been invoked in vain. Severe penalties and the most rigid inspection of these dens, in which disease has lurked, have checked the greed of those who were coining money out of human victims incapable of resistance.

The great majority of garment workers in our large cities who are under the sway of sweaters are people who are ignorant of our language and customs, and, impoverished as they are, find themselves better off than in the European countries whence they came. It has been said by some who take a selfish view of the matter that cheaper production means lower prices to those who purchase; and it has been contended that these miserable occupants of sweat shops are

in improved circumstances relatively to their condition in the old world, and ought to be contented. It would be lamentable if these white slaves were contented with their lot. Probably it is true that they earn a few more pennies than they did in the old country. But such conditions must not exist in our community; and the willingness to submit to filthy and unwholesome sanitary surroundings, in order to get the bare means of existence, affords no excuse for those contractors who are endeavoring to maintain the sweating system amongst us.

It is the distinction of this country that in the eyes of the law there are no fixed or permanent classes. He who is hired to-day may himself hire others at some future time to labor for him. It is for the ultimate advantage of all that every man in the land shall have the best possible opportunities for self-culture and development. The people who toil twelve or fourteen hours in the sweat shops for less than the means of comfortable subsistence, and, in addition, are compelled to employ the labor of their children to avoid starvation, are being robbed of their rights as human beings. The sweating system and everything akin to it or resulting from it must be suppressed, in the interests of humanity. Morality condemns it, good citizenship cannot tolerate it. In a State like Massachusetts the facts need only to be known in order to summon against it all the resources of law and public opinion. No voice has ever been heard in its defence, either in the Legislature or in the public press.

Whatever may be said for or against strikes, it is a significant fact that since my last annual report more than ten thousand tailors of New York and its vicinity upon a certain occasion organized a strike against the task work and sweating system. They made an intelligent and forcible appeal to the judgment and sympathy of their fellow men. That movement resulted in favor of the best interests of garment workers. Social and sanitary reform was more surely advanced than if the leaders had depended solely upon the customary features of discussion and agitation. They refused to make any concessions to the tenement-house contractors, and fought out the issue to a marked and lasting success. No law passed in the Empire State ever dealt a

more powerful blow at the monstrous crime against human rights. Legislation had been furnished as called for, and there had been practical enforcement of law; but the temporary paralysis of a great business for a few days was a crushing defeat of the sweat-shop contractor. It was the existence of the tenement-house system in New York, the evils of overcrowding population, which are fruitful sources of vice and crime as well as evidences of extreme poverty, which made the sweating system more than a possibility, and gave it such a foothold in that great city. The oppression of the very poor, those who are honest and anxious to earn a living, has never been more flagrant and terrible than since the cropping out of this later form of human indifference and greed.

The most dismal refugees of toil and poverty known to the civilized world have been disclosed in what are called tenement-house districts among conditions so wretched that imagination quails before them. Little children have been found crouching upon piles of garments in various stages of manufacture, their slight strength enlisted in some part of the work, shut out from the air and sunlight, and in an atmosphere foul with exhalations and unmentionable forms of filth, all through the long hours of a weary and hopeless day. These are not the natural products of our free institutions, they are the excrescences that might be more fitly sought for in other lands. The unhealthy abodes, the mean conditions that sometimes seem to be natural outgrowths of institutions which deny freedom and opportunity to man, must not be transferred to American soil. Emigration brings some elements that tend to good, but there are other things which it must leave behind it if it seeks a place and welcome upon our shores.

It is more than forty years since the search-light of legislative inquiry penetrated the lower tenement-house districts in the city of New York. It was found that the evils of overcrowding, absence of sunlight and wretched sanitary arrangements were not worse in certain notorious neighborhoods of London and Paris than in the districts investigated by the legislative commission of 1856. The disclosures of that period aroused the public attention, and resulted later

in some remedial legislation. Some of the worst abuses have been corrected. But the real difficulty lies in the fact that vast masses of the laboring population herd together, and make cleanliness, comfort and health almost impossible of attainment. The attractions of city life, the desire to live handy to their work, the instinct which seems strongest among the very poor, account for the overcrowding of the tenement-house districts.

No substantial and permanent change can be made in the physical surroundings of such a population until a generation or two have been trained in better ideas of living. What can be done with people who seem entirely contented to remain for a lifetime in such straitened quarters that decent existence is out of the question? The scheme of model tenement-blocks is no longer a novel one. It was maintained that there were no incentives to order, neatness and kindred virtues among the poor while they were compelled by motives of economy to spend their lives in small, ill-adapted, squalid rooms. But, while some good has been accomplished by providing tidy, reasonably spacious and cheap dwellings for families upon the plan of model houses, it has been stated that it is only possible for a quite limited period to maintain these apartments in a proper state of cleanliness and repair. The ignorant, lazy and reckless tenants soon mar, foul and destroy the premises. The living-rooms are used as workshops, in which the dreary round of toil goes on by day and night.

The reports of Inspectors Griffin and Plunkett, especially assigned for the enforcement of the statute relating to the manufacture and sale of clothing made in unhealthy places, will show the good results attending their efforts. They have made diligent search where it was suspected that similar unhealthy conditions existed in Massachusetts, and have reported some violations of the law in relation to clothing made in tenement-houses; and in every case the practice has been broken up, either by prosecutions of the offenders or by their voluntary action. What has been said in this report in relation to unwholesome homes finds practical illustration in the evils of the sweating system. No proper home life can be maintained where all the conditions of neatness,

decency and health are constantly destroyed, as they must be, to sustain the sweat shop.

It must be said that the real character of the sweating system was not suspected at first. The possibility of conveying contagion by means of the clothing so handled was apparent, but actual and thorough inspection revealed the full measure of the evils inherent in such methods of labor. The complete remedy lies far beyond the domain of labor legislation, and is fairly suggested by the fact that at present the congested centres of population present the greatest dangers to society and are the despair of modern civilization.

SUMMARY OF INSPECTION WORK.

The record of work performed by the inspectors shows that 5,069 manufacturing, mechanical and mercantile establishments have been inspected since my last report. Orders have been issued to the number of 2,905, and it is gratifying to state that there has been a general compliance with said orders. From the reports of the inspectors I find the whole number of children employed in factories and workshops thus far visited is 13,892; children employed between thirteen and fourteen years of age, 302; young persons employed between fourteen and sixteen years of age, 13,590; number of males employed, 232,317; number of females employed, 157,122; whole number of males and females employed, 389,439.

VENTILATION OF FACTORIES, WORKSHOPS, SCHOOL-HOUSES AND PUBLIC BUILDINGS.

In no part of the work of this department has there been more patient and thorough investigation than that of sanitation. It would be idle, upon general principles, to spend much time in reasoning upon the importance of securing the best conditions for health not only in the homes of the people but in those places where they meet for labor, instruction and entertainment.

The entire lack of all pretence of securing ventilation of any sort was until quite recent years the rule, and not the exception. When the ordinary causes of foul air in buildings, such as imperfect drainage, overcrowding, bad ventila-

tion or more likely none at all, began to be acknowledged, the more difficult task remained of selecting the proper remedies.

For a long time even some intelligent people insisted that it was sufficient in such cases to periodically introduce fresh air from without the building. They supposed that pure air would displace the impure. The immediate effects of that method seemed to justify their reasoning. Throw open occasionally the doors and windows of the room whose air is laden with the germs of pestilence,—what better way could be devised, it was asked. But scientific knowledge was brought to bear upon the subject, and it became apparent that the introduction of outside air into an apartment without expelling the vitiated air already within was not an effective remedy. Aside from the risks to health of a sudden and great lowering of the temperature and the impossibility of driving the purer air by such means into all the space required to be reached, that crude method revived the sluggish, half-poisoned victims of foul air just as a dash of cold water into the face of a fainting woman shocks her into a semi-conscious state. It was hardly a palliative measure. It was a pernicious notion, because its acceptance stood in the way of intelligent treatment.

Then reliance began to be placed upon primitive appliances attached to windows, whose results differed in this respect, that there was a moderate but constant forcing of fresh air into the room. But no provision of that sort could remove the foul air or exchange it effectually.

It would seem that an elementary fact patent to the humblest understanding would need only to be stated to those who claim to have studied ventilation from a scientific standpoint, yet resist the conclusion that any scheme of ventilation which ignores the principle in question must fail at a vital point.

There are two classes who deal with the subject of ventilation without reaching correct conclusions, because each despises the method of reasoning adopted by the other and the premises upon which it is based. One class has evolved a theory which appears to be consistent, and they tell us that all systems of ventilation except their own are worse than

useless. They have satisfied themselves that it is not essential to displace foul air by direct methods employed for that specific purpose, and that it is sufficient to keep up an adequate supply of pure air from outside the building. Wedded to their own theory, they shut their eyes to results which manifest their error to all but themselves. The other class show ill-disguised contempt for all scientific schemes of ventilation, however they may be supported by facts, and say they rely upon rational common-sense ideas. The disinterested and long-continued observations that trained experts have made, and the well-balanced and irresistible conclusions which such men have drawn, go for nothing with those who deal with the subject of ventilation as if any child could master its problems. The matter has long since been taken out of the domain of speculation. Both these classes referred to, impatient as they are of contradiction and intolerant of one another's views, have failed to take into account the object lessons which certain school-houses and public buildings present in our Commonwealth.

Compare some of these structures that might be named, and to which some reference will be found elsewhere in this report, with conspicuous examples of the other sort, and more exact and accurate knowledge will be had than partial views and discussions can furnish. Interrogate the intelligent teachers, for instance, who spend many hours annually in brain and nerve exhausting toil in school-houses properly ventilated, that is, in rooms from which vitiated air is systematically expelled precisely as pure air is furnished, and they will testify of the vast improvement made by modern methods of ventilation.

That all systems of ventilation proposed for adoption are of equal merit, even if based upon proper principles, cannot reasonably be claimed. But, whether more or less defective in details *or objectionable on the ground of excessive cost*, no scheme of ventilation can be approved that does not conform to the prime requisites that have been ascertained by competent scientific investigation and tested by actual operation and use. The primitive ideas that long since governed the arrangements for heating buildings, especially school-houses, have to a great extent disappeared. The requirements of

comfort and health are wisely met when the rooms of any building used by human beings are supplied regularly with the proper amount of pure, warm air, free from dust, gases and impurities of every kind. This freedom cannot be obtained simply by forcing pure air among the foul, and attempting to neutralize the latter by the introduction of the former. As well attempt to purify stagnant water in a jug by filling it up with pure water. Good heating and good ventilation cannot be separated by any system that is based upon scientific knowledge.

Nothing can be more firmly established than the fact that there is no ventilation secured to a room simply by heating it. A system of heating, if there be such, that will not contribute to ventilation also, or that cannot be made to harmonize with it, is so far open to objection. Ventilation, to be effective, must be incidental to any system of heating.

VENTILATION PRACTICALLY CONSIDERED.

It is an indisputable fact that the air is never found absolutely pure in densely populated places, in occupied apartments or in school-rooms. It is always a question of degree. The act of respiration and the emanations from the person, which, although insensible, are constantly taking place, vitiate it to a serious extent. Practically each person vitiates three thousand cubic feet of air in an hour, and hence this amount must be drawn out in the same length of time and its place supplied by an equal quantity of pure air.

If the foul effluvia ejected from the lungs and accumulating in an apartment as badly ventilated as are some of the school-rooms visited be added to the fouler matter thrown into the air from the insensible perspirations of so many individuals, many of whom are of uncleanly habits in person and apparel, it is apparent that in a very limited period of time the air in a close room would become absolutely unfit for respiration.

Children confined in the atmosphere of ill-ventilated school-rooms soon lose the ruddy and cheerful complexions of perfect health which belong to youth, and acquire the sallow and depressed countenances which are often seen in overworked factory operatives or the tenants of apartments

which are seldom blessed by the cheerful sun or the reviving air.

In estimating the amount of air to be supplied, we ought not merely to look at what the system will tolerate, but that amount which will sustain the highest state of health for the longest time. Authors of good repute differ considerably as to the amount of air which should be supplied for each scholar during the school session. The greater delicacy of the organization of children and their feebleness to resist the action of deleterious agents, together with their greater rapidity of respiration, demand for them that thirty cubic feet of fresh pure air should be furnished per minute to each pupil. Proceeding upon this basis, and multiplying the amount required for each pupil, we have for fifty pupils occupying a school-room to supply fifteen hundred cubic feet per minute. This should be the minimum to insure even a reasonable degree of purity.

The very earliest impressions received by the inspectors assigned to this branch of the department in their visits to the school-houses satisfied them of the lamentable condition in regard to ventilation. In some of them they found the air so bad that it could be perceived before reaching the school-rooms, even in the open hall ways. It was noticed that the clothes and hair of the children who passed them on the stairs were perceptibly impregnated with the fœtid poison; and these conditions existed in school-houses whose open windows testified that the teachers had endeavored to improve the atmosphere by every means at their disposal. To this custom, that of opening windows in school-houses, the teachers are compelled to resort for relief. Yet this dangerous and injurious practice only mitigates the evils of bad air by creating others. It produces colds and inflammatory complaints, and the air still remains impure, offensive and highly deleterious, sufficiently so to affect the delicate organization of children, to blight its elasticity and destroy that healthful physical action on which depends the vigor of maturer years.

It may be deemed a matter of surprise that the subject of ventilating our school-rooms has not long ago received the consideration necessary to remedy the evils of which we at

present complain. It should, however, be remembered that stoves and furnaces now in common use are of comparatively modern date, and that the ample fireplaces which they have displaced always proved efficient ventilators. But in closing fireplaces and substituting more economical methods of warming, evils of far greater magnitude have been entailed upon us.

It is evident that, in order to carry into operation any complete system of ventilation, there must be connected with it some apparatus to regulate the temperature of the air to be admitted, as well as to insure its ample supply.

In our endeavors to introduce improvements which seemed to us absolutely essential, we have encountered many difficulties. The failure to submit plans of methods of ventilation has in many instances resulted in causing additional expense in the reconstruction of the system adopted. In some cases the changing of plans after approval by this department has not met with good results. Failures have occurred from the fact that the ducts and flues for the admission of pure air and the extraction of foul air have not been of maximum size; that is, they were not calculated for the largest number which the apartment was intended to accommodate. Another cause of failure to secure good ventilation has been that no provision was made for creating an air movement through the ventilating shafts.

The plans which have been submitted to this department for approval seem in some cases to have been divided into two classes, by taking up the subject at its opposite ends, one looking to the incoming of the air, the other to its outgoing, both having a common aim, — the perfect balance of the two. One method concerns itself only with supplying air, leaving it to make its way out as best it can through ducts provided for that purpose. It is the “plenum” method, and known as mechanical. The other system is directed to the withdrawal of foul air, and is accomplished by means of an exhaust fan, and is known as the “vacuum” method. In some cases the natural tendency of warm air to rise is relied upon as available for that purpose.

The system adopted by some of our best ventilating engineers, that of placing a separate flue in each room for

ventilation, makes it independent of unfavorable conditions in other rooms, such as open doors or windows. The use of one common shaft for ventilation has been found under certain conditions to convey the foul air from one room into another, and frequently during high winds there is an increase of ventilation from one room at the expense of some other room not exposed.

It has been observed, in our inspections of school buildings heated by furnace or steam, that the best results are obtained (when mechanical means are not employed) by placing in the ventilating flues coils of steam pipe, gas jets or stoves.

In the investigation of this department the various methods or systems that have been adopted for ventilation in school buildings have been carefully studied. The most thorough tests have been made in each case, and in no instance has any system been approved that has failed to provide each scholar present in the school-room with thirty cubic feet of fresh, pure air per minute.

In the ventilation of school buildings the many hundred examinations made by the inspectors of this department have shown that the following requirements can be easily complied with:—

1. That the apparatus will, with proper management, heat all the rooms, including the corridors, to 70° F., in any weather.

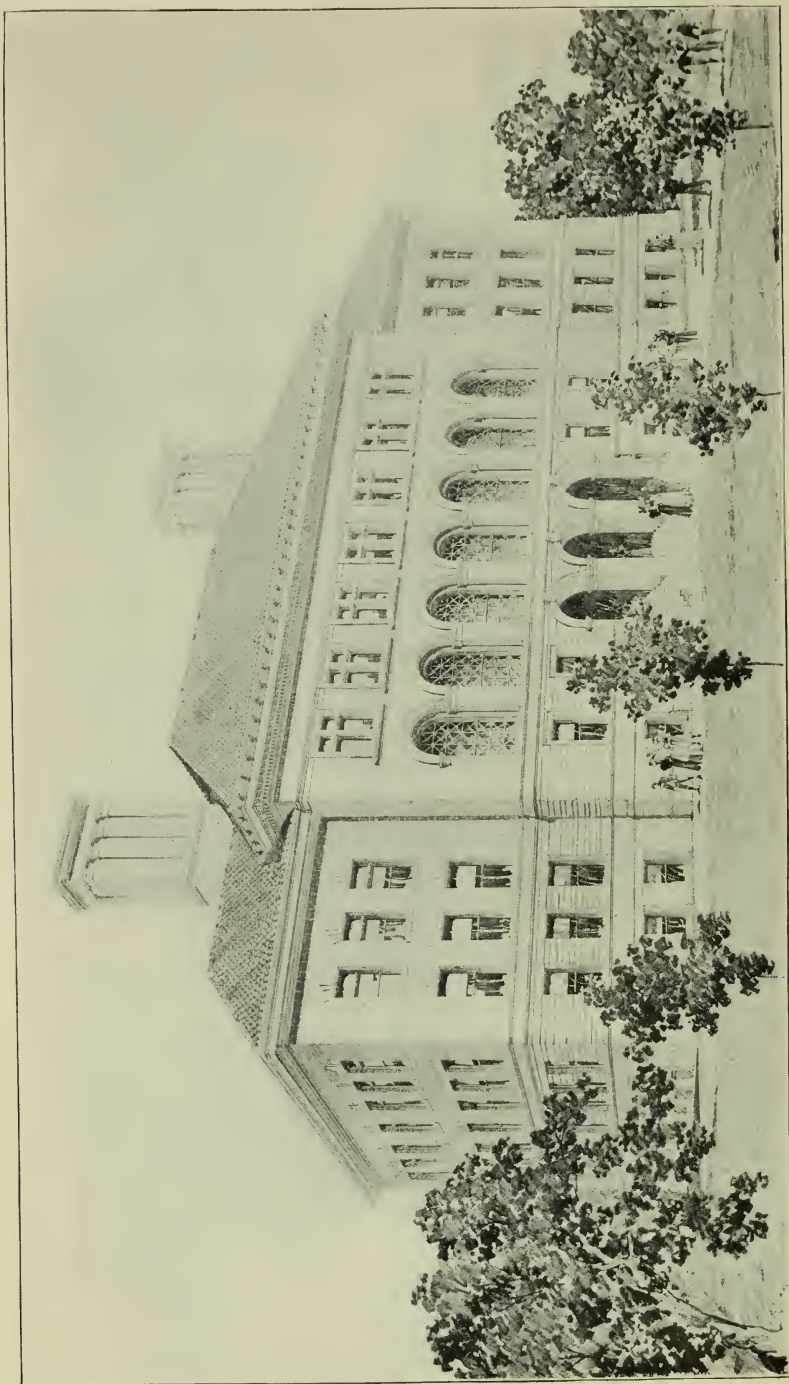
2. That, with the rooms at 70° and a difference of not less than 40° between the temperature of the outside air and that of the air entering the room at the warm-air inlet, the apparatus will supply at least thirty cubic feet of air per minute for each scholar accommodated in the rooms.

3. That such supply of air will so circulate in the rooms that no uncomfortable draught will be felt, and that the difference in temperature between any two points on the breathing plane in the occupied portion of a room will not exceed 3°.

4. That vitiated air in amount equal to the supply from the inlets will be removed through the ventiducts.

5. That the sanitary appliances will be so ventilated that no odors therefrom will be perceived in any portion of the building.

To secure the approval of this department of plans showing methods or systems of heating and ventilation, the above



STATE NORMAL SCHOOL, LOWELL, MASS.

requirements must be guaranteed in the specifications accompanying the plans.

During the past year the requests for information on the subject of heating and ventilating school-houses have been frequent. To all interested in this subject I present in this portion of my report plans showing the method of heating and ventilating the State normal schools now being erected in Lowell and North Adams.

The experience and the exceptional opportunities afforded the inspectors assigned to this scientific branch of our inspection work have given the department facts that are worthy of adoption.

The following plans, drawn by Inspector John T. White, show the system of heating and ventilation adopted for the State normal school to be erected in Lowell, Mass. : —

STATE NORMAL SCHOOL AT LOWELL.

This building will cover about 13,000 square feet of ground, will be three stories in height and contain twelve class rooms or laboratories, each about 34 by 34 feet, with six recitation rooms and six private laboratories for the teachers, with the usual reception and cloak rooms. The general class room is 58 by 62 feet and 18 feet high, and lighted by the large round arched windows shown in the perspective. It is placed on the second floor in the centre of the building. Above it is a drawing room in front and a gymnasium in the rear. The building is to be constructed of limestone and gray brick, laid in white mortar with a red Ludovici tile roof. The stairways will be of iron, the finish of ash, and three coats of plaster work on metal lathing. In the basement are two rooms for manual training and a lunch room for women pupils, with boiler, coal, engine and ventilating apartments. When completed, the building will have cost about \$125,000. Messrs. Stickney & Austin of Lowell are the architects.

Heating and Ventilation.

The building will be heated by steam from two horizontal steel tubular boilers of about sixty-five horse-power each. These boilers will be so arranged and connected that either or both may be used, as desired. The radiation will be mostly indirect, direct radiators being placed in the corridors and some of the northerly rooms and assembly hall. The depth of the boiler room is such that, without pitting the boilers, the water line will be about four

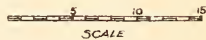
feet below the lowest radiator, thus insuring the return of the water of condensation by gravity from all parts of the system. The location of the boilers and radiators and arrangement of the piping are so shown on the plans as to be easily understood without further description.

The scheme of ventilation is that commonly called mechanical, the fresh, warm air being supplied through a fan driven by a steam engine; but this applies to the supply only, the vitiated air being removed through metal ducts of large size heated by coils of steam pipe. The system is so arranged as to do fairly good work by gravity alone, the fan being used mainly to control and render more positive the air supply; and the whole apparatus may be run as a gravity system at any time, as hereinafter described.

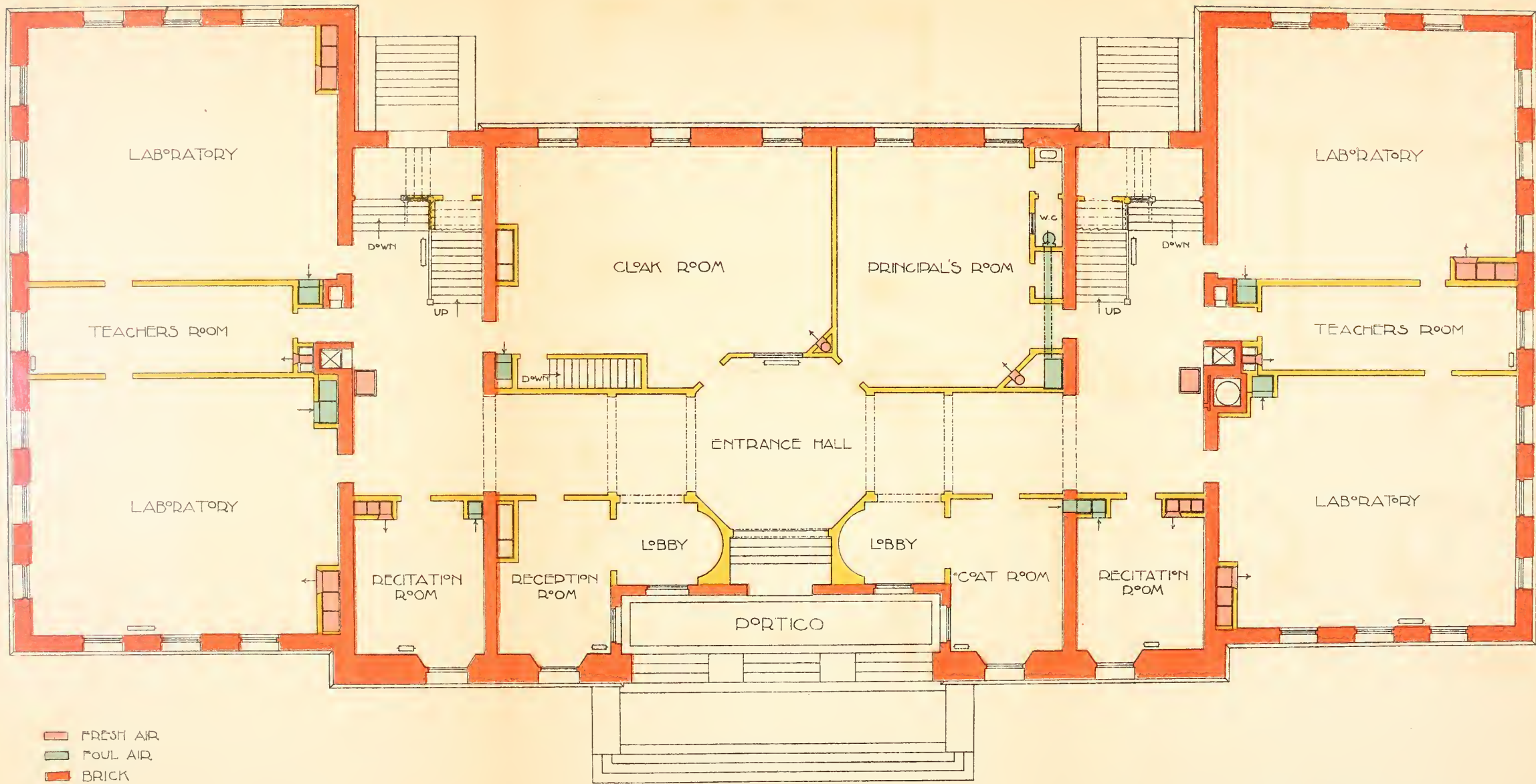
The fan is of the Sturtevant pattern, $4\frac{1}{2}$ by 9 feet, and is guaranteed by the makers to supply the requisite amount of air at one hundred and twenty revolutions per minute. The engine is also of the Sturtevant make, and will drive the fan as required with a pressure of steam of twelve pounds to the square inch. The exhaust steam from the engine will be used in a portion of the primary heater. The main primary heater is composed of stacks of cast-iron radiators of the Bundy Newport pattern, arranged as shown, in six sections, so that any one or all can be used. In addition to this primary stack there will be supplementary radiators at the foot of each rising air pipe leading to the school-rooms. By an arrangement of mixing valves, as shown, the air may be made to pass through these coils or directly to the rooms from the primary stack or mixed in any proportion. These valves can be controlled from the rooms by the teachers by chains and pulls easily adjusted to any position. Metallic thermometers, of peculiar make, will be placed on all the inlets for warm air. These thermometers have been found to greatly aid the teacher in regulating the temperature of a room, as one can see at a glance what is the temperature of the air entering at any inlet.

Valves or dampers are placed in all air ducts leading from the fan to the rooms, so that the flow of air can be easily regulated or shut off entirely from any room when desired. Valves are also placed in all the outlets for foul air, to regulate or shut off the exhaust at will. At night, or whenever the school-rooms are not in use, these valves may be closed and the doors to the radiator chambers in the basement opened, and the whole building then heated by rotation of air through the rooms and corridors, or by what is practically a direct steam system.

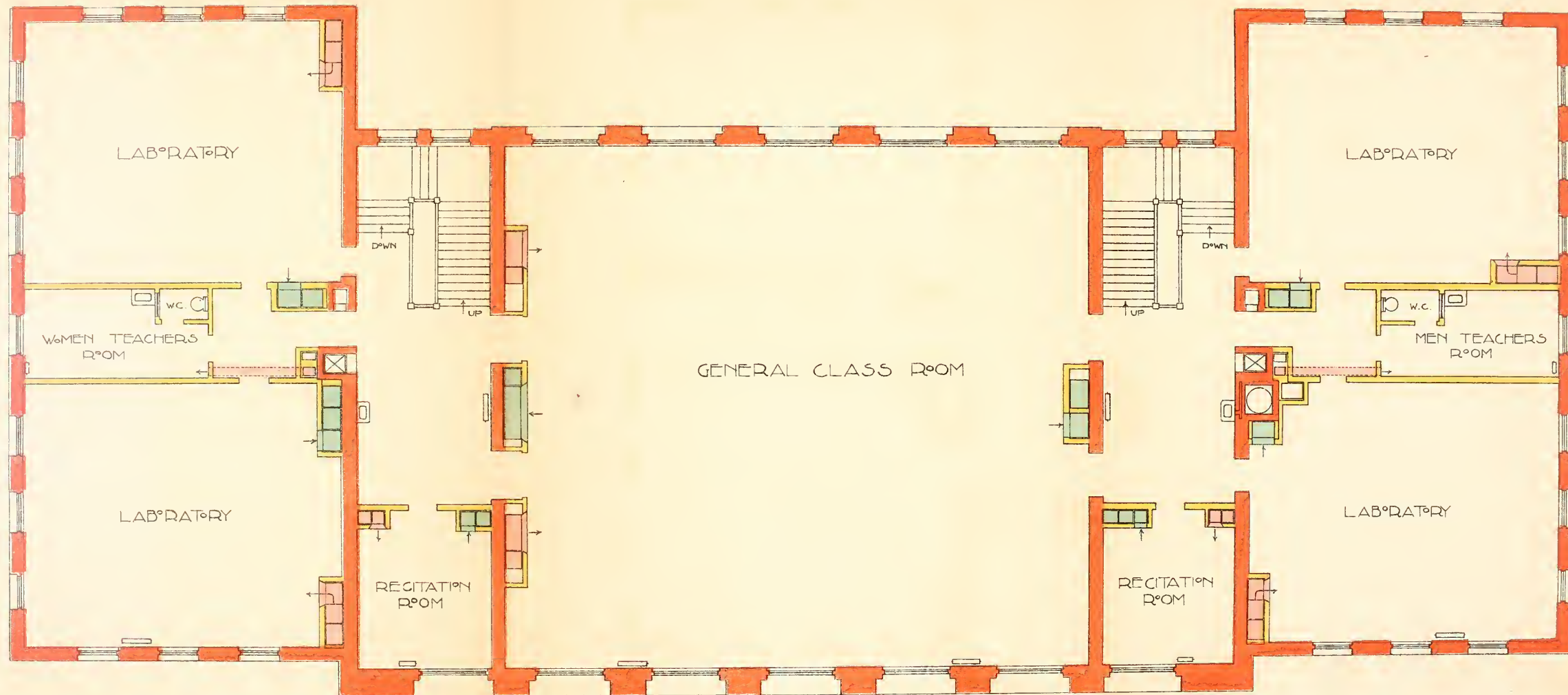
The accompanying drawings show the basement, first, second and third floor plans. On these plans are shown the location of



NORMAL SCHOOL LOWELL MASS.
HEATING AND VENTILATION
DESIGNED BY JOHN T. WHITE.
STICKNEY AND AUSTIN ARCHITECTS
BOSTON AND LOWELL MASS.



NORMAL SCHOOL LOWELL MASS.
HEATING AND VENTILATION
DESIGNED BY JOHN T. WHITE.
STICKNEY AND AUSTIN ARCHITECTS
BOSTON AND LOWELL MASS.

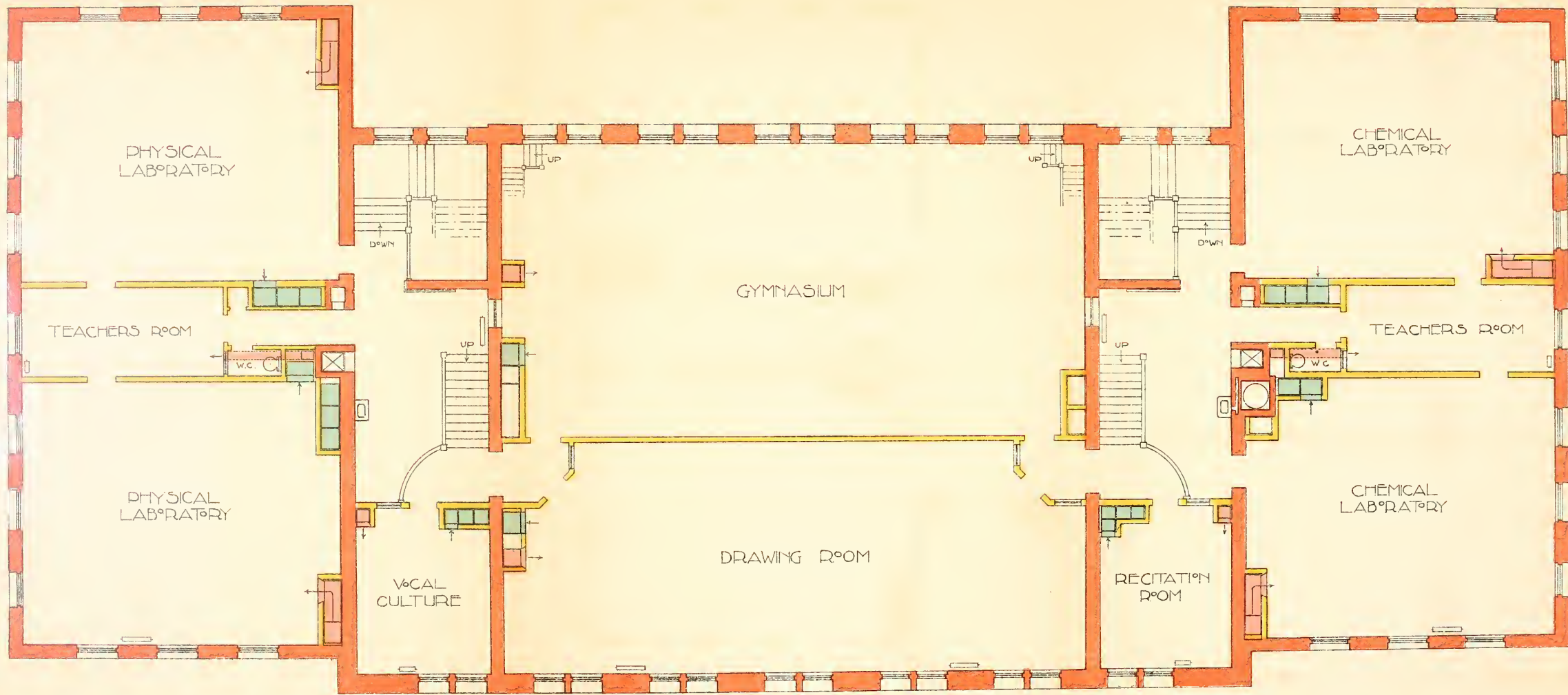


- FRESH AIR
- FOUL AIR
- BRICK
- WOOD

5 10 15
SCALE

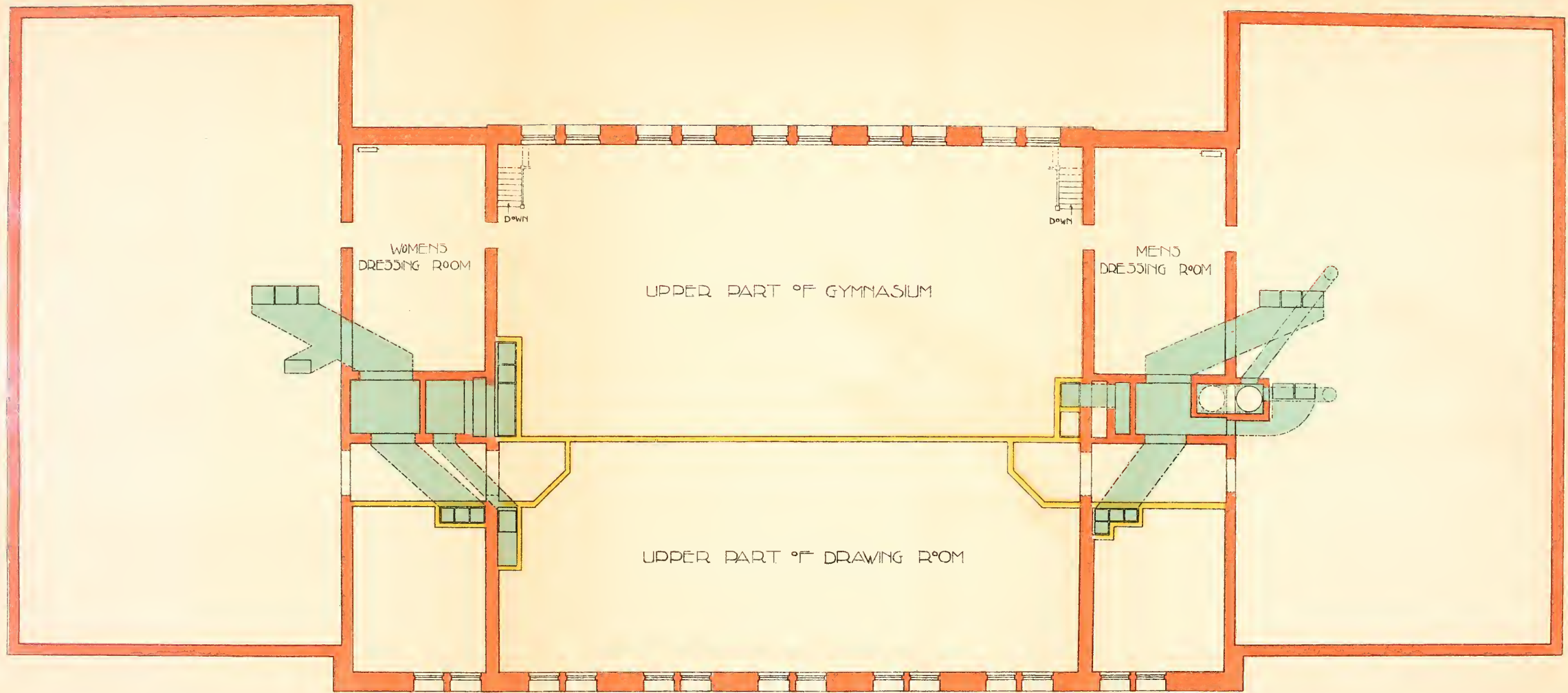
PLAN OF SECOND FLOOR

NORMAL SCHOOL LOWELL MASS.
HEATING AND VENTILATION
DESIGNED BY JOHN T. WHITE.
STICKNEY AND AUSTIN ARCHITECTS
BOSTON AND LOWELL MASS.



PLAN OF THIRD FLOOR

NORMAL SCHOOL LOWELL MASS.
 HEATING AND VENTILATION
 DESIGNED BY JOHN T. WHITE.
 STICKNEY AND AUSTIN ARCHITECTS
 BOSTON AND LOWELL MASS.



- FRESH AIR
- FOUL AIR
- BRICK
- WOOD

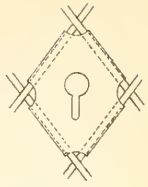
5 10 15
SCALE

UPPER PART OF THIRD FLOOR

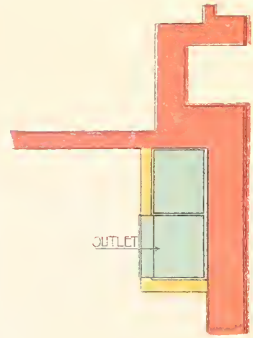
NORMAL SCHOOL LOWELL MASS.
HEATING AND VENTILATION
DESIGNED BY JOHN T. WHITE.
STICKNEY AND AUSTIN ARCHITECTS
BOSTON AND LOWELL MASS.



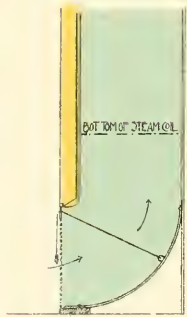
SECTION THRO CONDUIT
FOR MAIN RETURN



LOCK CATCH FOR CHAIN

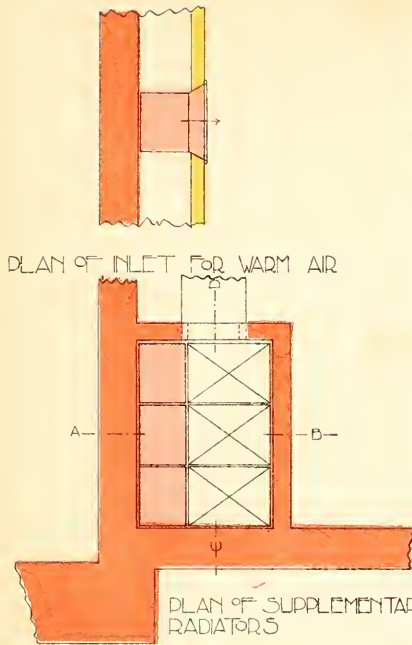


PLAN



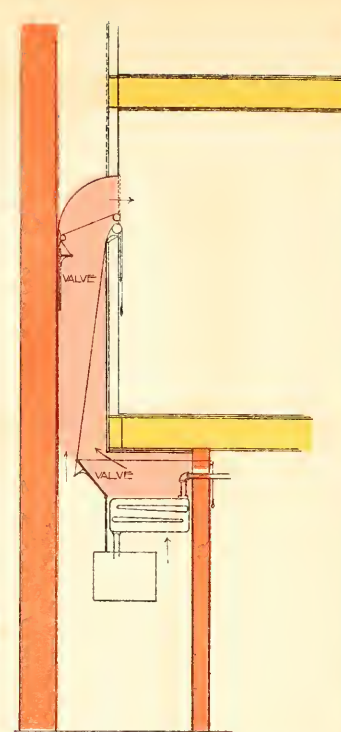
SECTION

DETAILS OF OUTLETS

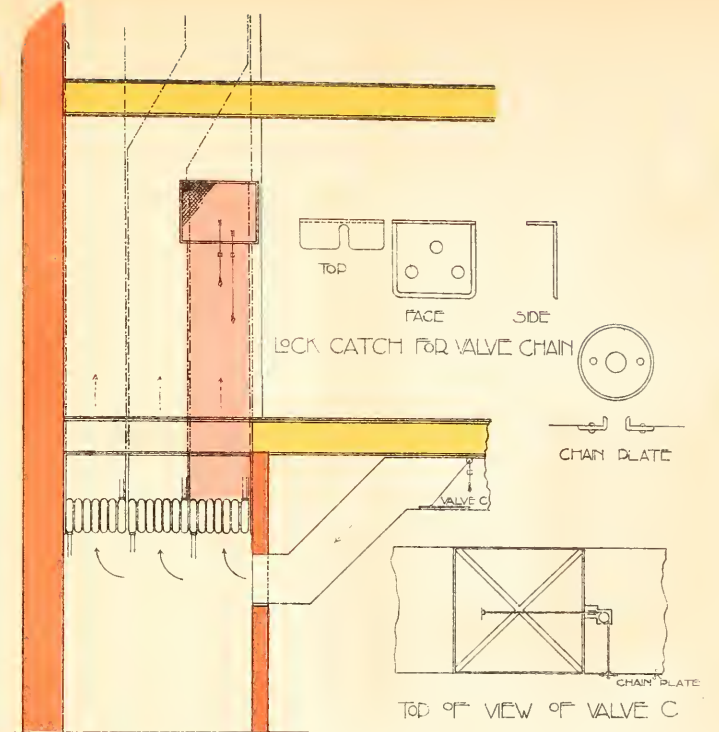


PLAN OF INLET FOR WARM AIR

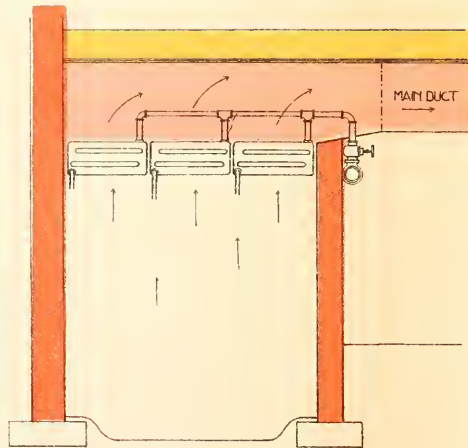
PLAN OF SUPPLEMENTARY
RADIATORS



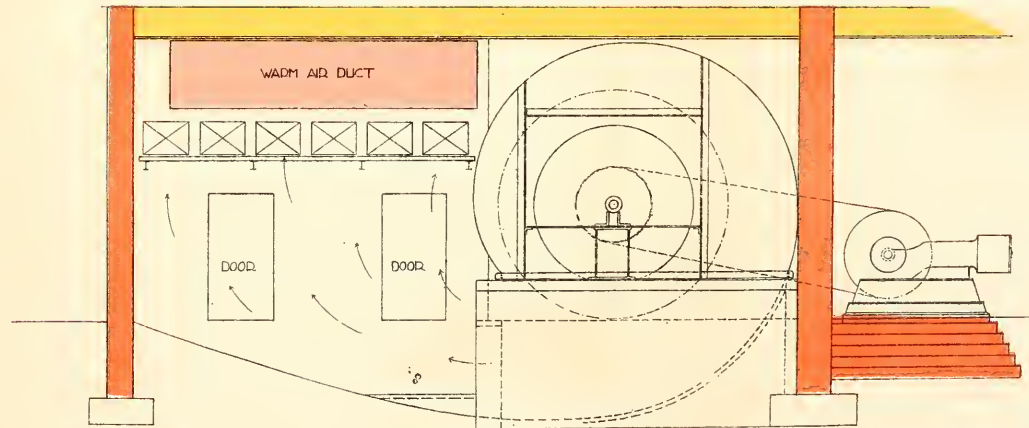
SECTION THRO A-B



SECTION THRO C D



CROSS SECTION, THRO HEATER



LONGITUDINAL SECTION SHOWING HEATER, BLOWER & ENGINE

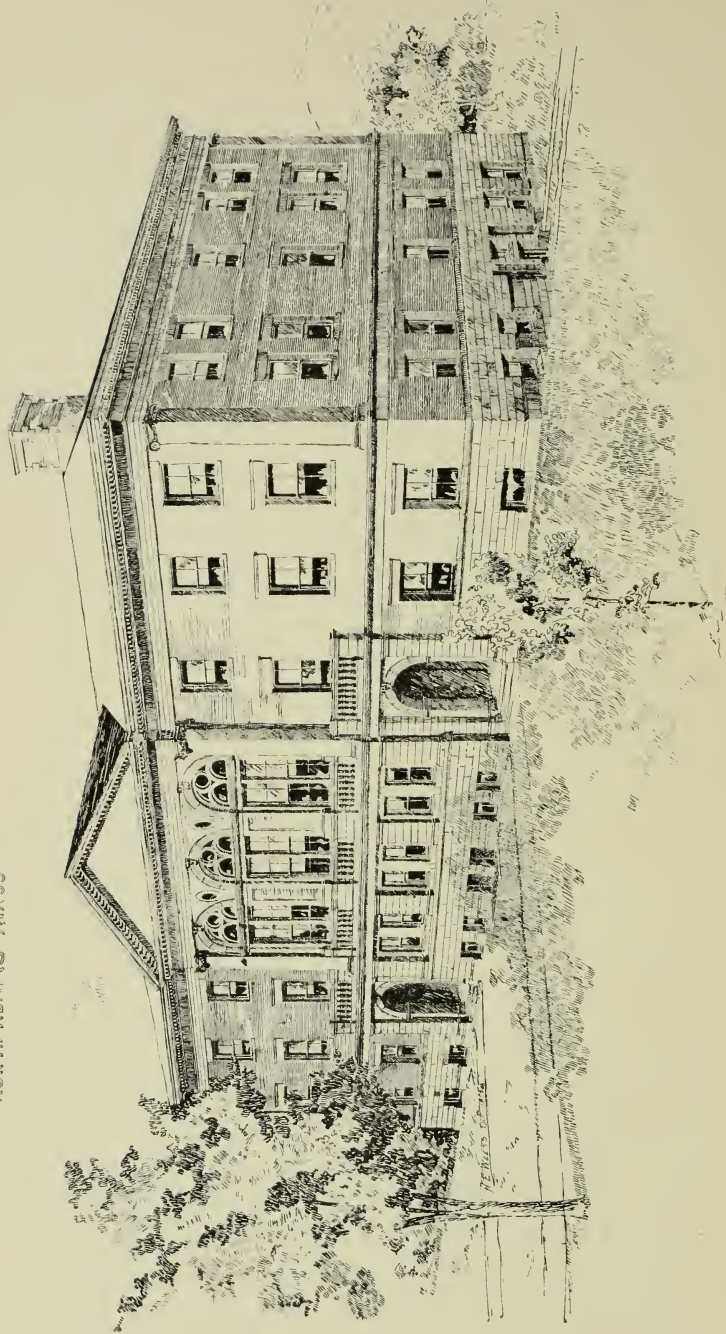
FRESH AIR
FOUL AIR
BRICK
WOOD

DETAILS OF VENTILATION

NORMAL SCHOOL LOWELL MASS.
HEATING AND VENTILATION
DESIGNED BY JOHN T WHITE.
STICKNEY AND AUSTIN ARCHITECTS
BOSTON AND LOWELL MASS.

STATE NORMAL SCHOOL
NORTH ADAMS MASS

H. NEILL WILSON, ARCHT
PITTSFIELD MASS



the boilers, engine, fan, primary and supplementary heaters and the general arrangement of the piping; also the location of the inlets and outlets for air in all the rooms and the direct radiators. Detail sectional drawings are also shown of the engine and fan and indirect stacks, and also of the fresh and foul air ducts and valves.

The following plans, drawn by Inspector F. W. Merriam, show the system of heating and ventilation for the State normal school building now being erected in North Adams, Mass. : —

STATE NORMAL SCHOOL, NORTH ADAMS, MASS. (H. NEILL WILSON, ARCHITECT, PITTSFIELD, MASS.)

The building in exterior is of white marble and yellow brick, with metal roof, in Italian style, 152 feet long, 84 feet deep and three stories and basement in height. It is of slow-burning construction, the floor timbering and roof being carried with steel beams and trusses. The arrangement of stairways, which are iron, gives easy and safe egress.

In the basement story are the boiler, mechanical, fuel and janitor's rooms, a kitchen, dining-room and workshop; in the first story, a parlor and reclining room, cloak and recitation rooms and toilets; in the second story, the main assembly room, office, library and recitation rooms; in the third story, two drawing rooms and the laboratories; and in the attic, ample space for storage.

The interior is finished in oak throughout, and provided with modern improvements and facilities. Messrs. Porter & Hannum of North Adams, Mass., are the contractors for the building, and the Smith & Anthony Company of Boston for the heating and ventilating work.

The system of heating and ventilation by Inspector Frederick W. Merriam was adapted to the plans of the architect, and was embodied by him in the general construction. The system is divided into two sections, for the better adjustment to different exposures, and is of the kind known as the double mechanical; although the fans are driven by clutch pulleys on the main line of shafting, so by the use of shippers either set may be run independently, thereby changing it to the plenum, or exhaust, as best suited to existing conditions. The size and location of flues and arrangement of the heating surface are also such that in the absence of power, from accident or other cause, it is a practical gravity system; or, by closing the cold-air duct and exhaust flues and

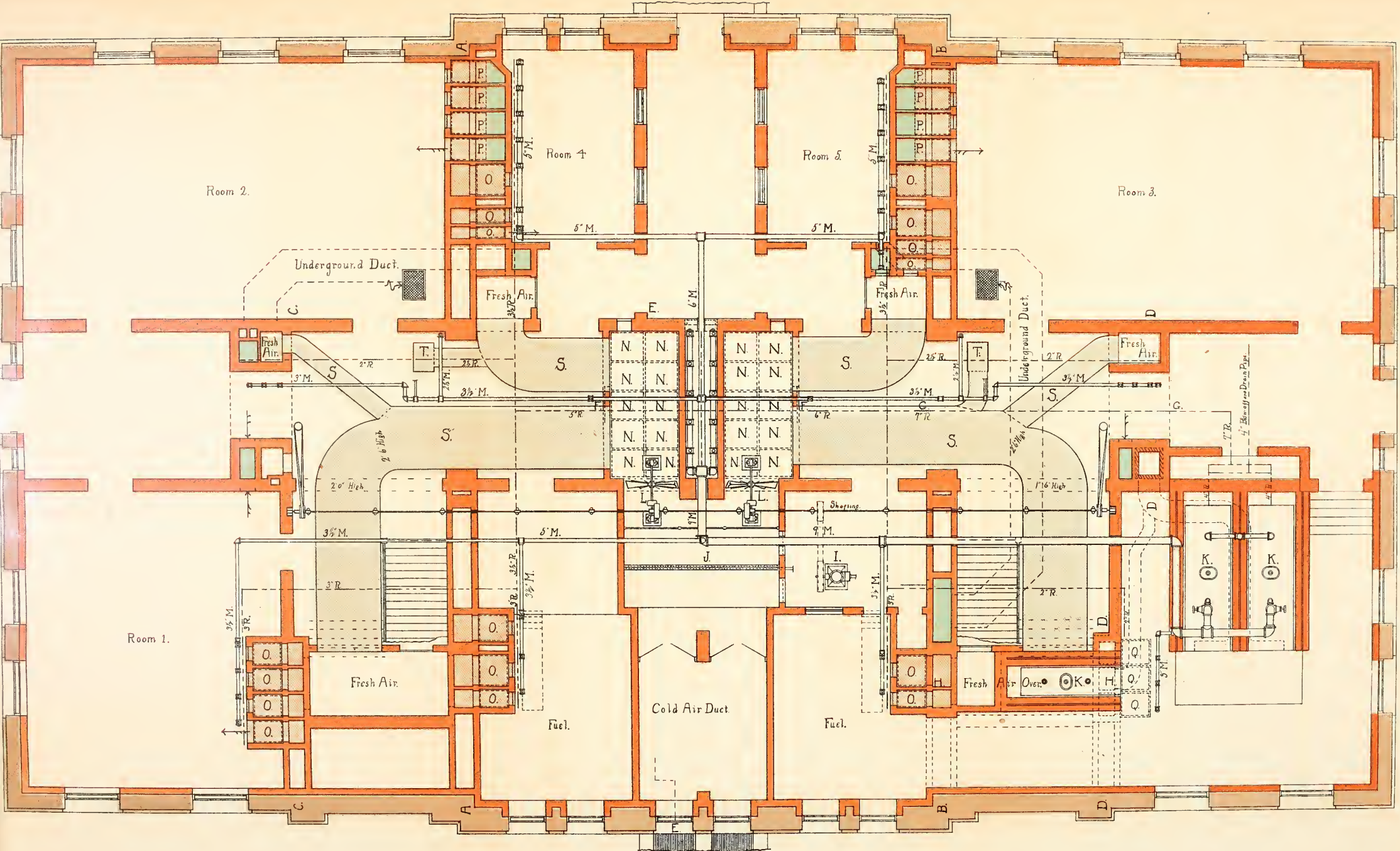
opening the doors from rooms and fresh-air chambers to corridors, it is a simple return heating system when the building is unoccupied.

Referring to the plans, sections and lettering, the following will explain :—

Sheet 1, basement plan, shows the scale of plans in feet, index of coloring and the general arrangement of rooms and the system. AA, BB, CC, D-D, EE, FF, GG and HH locate the sections of their respective letters. I is a slow-speed steam engine of required power to drive the fans at maximum speed with ease. J is a sub-primary heating coil in cold-air room, utilizing the exhaust steam from engine whenever heat is wanted. K-K are tubular boilers, the single one for power and mild-weather heating, and carry a medium pressure; the double ones are for general heating work with a pressure not to exceed ten pounds to the square inch; they are set low enough to insure the return of condensation from all parts of the system, and arranged so either one can be used separately if desired. LL are plenum fans of special design, with adjustable blades. M-M show the sizes and location of the main feed pipes and connections. N-N are sections of the primary heating surface, and are connected in five double sections to each chamber, separately controlled, to heat the air of varying winter weather to about 60° F. O-O, P-P and Q-Q show the supplementary heating surface, which is arranged in two sections to each chamber, separately controlled, and sufficient to maintain a temperature in their respective rooms of 70° F. in coldest weather; or, if used independently as a return heating system, sufficient to maintain a suitable temperature throughout the building when unoccupied. R-R show the sizes and location under basement floor, by dotted lines, of the main return pipes. S-S are metal ducts connecting the primary with the several supplementary heating chambers. TT are for foot warmers in the first-story corridor.

All flues, fresh-air and heating-surface chambers are of brick except the three chambers Q-Q over the power boiler, which are of metal; and each section of heating surface can be reached for repairs, if necessary, below through fresh-air chambers, or above through man-hole doors of suitable sizes. The underground ducts are for the exhaust of rooms connecting. The blow-off and drain pipe is arranged so the entire apparatus can be relieved of water with ease.

Sheets 2, 3 and 4, first, second and third story plans, show the general arrangement of rooms and location of flues and their connections. The sanitary rooms and toilets are connected with

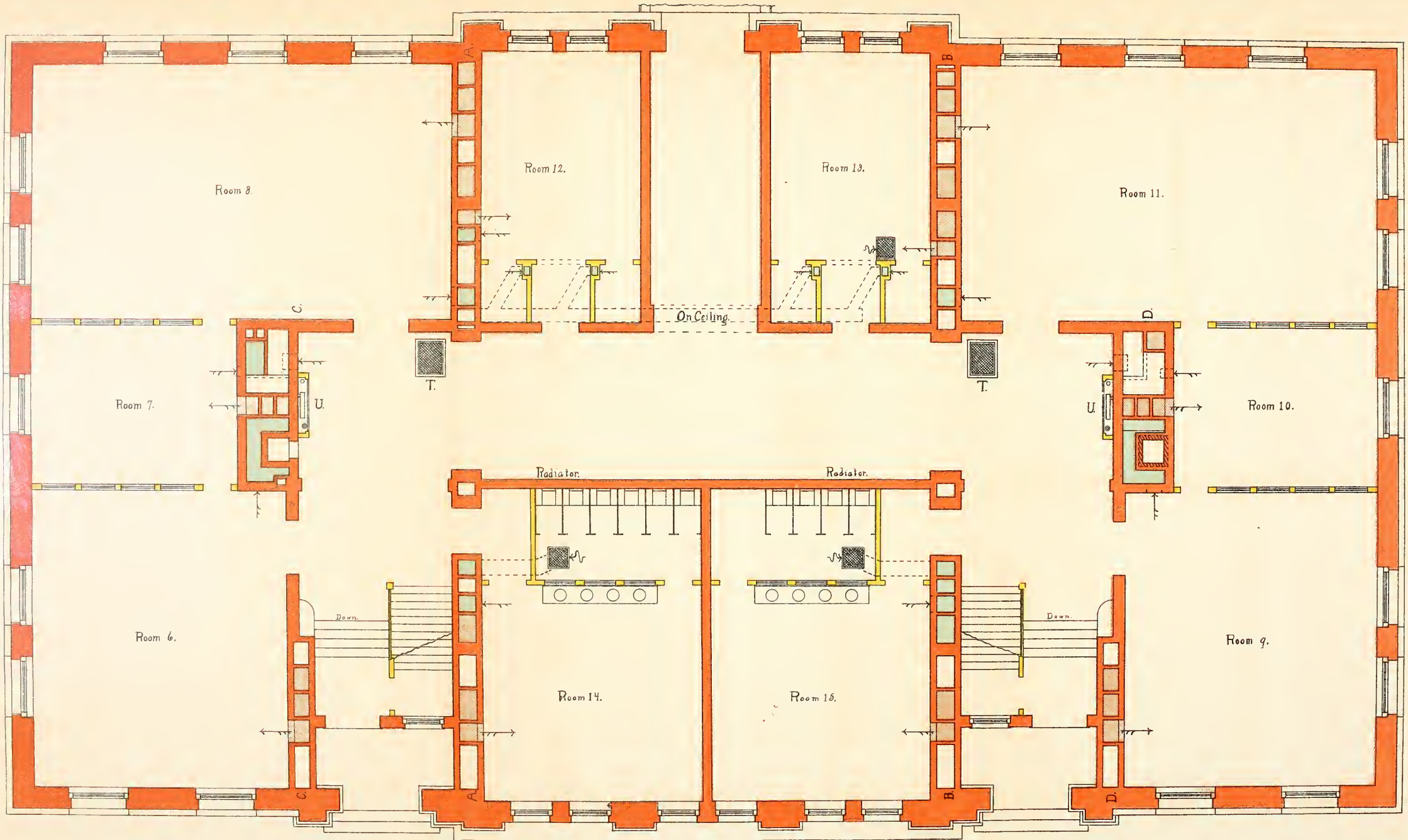


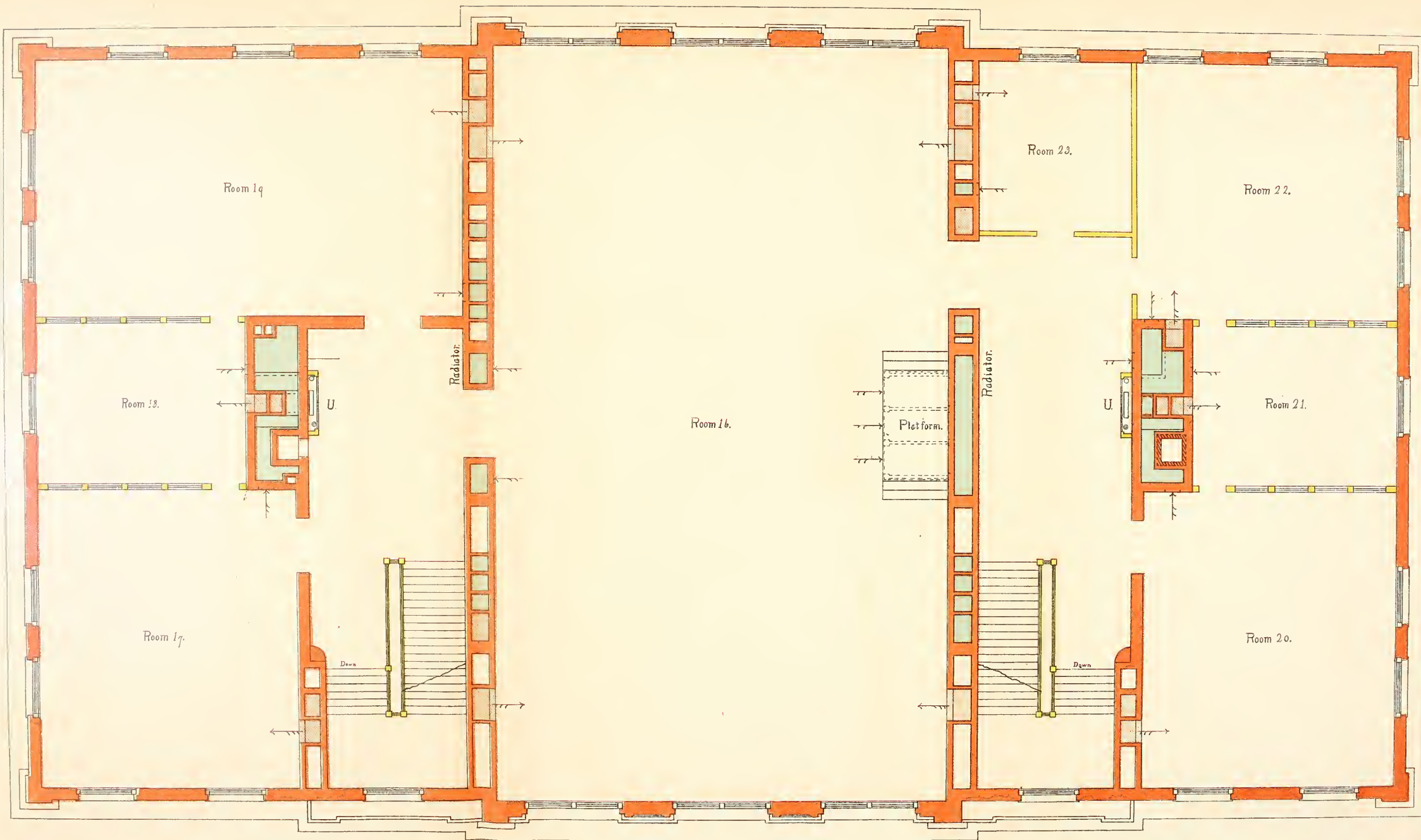
Basement Plan

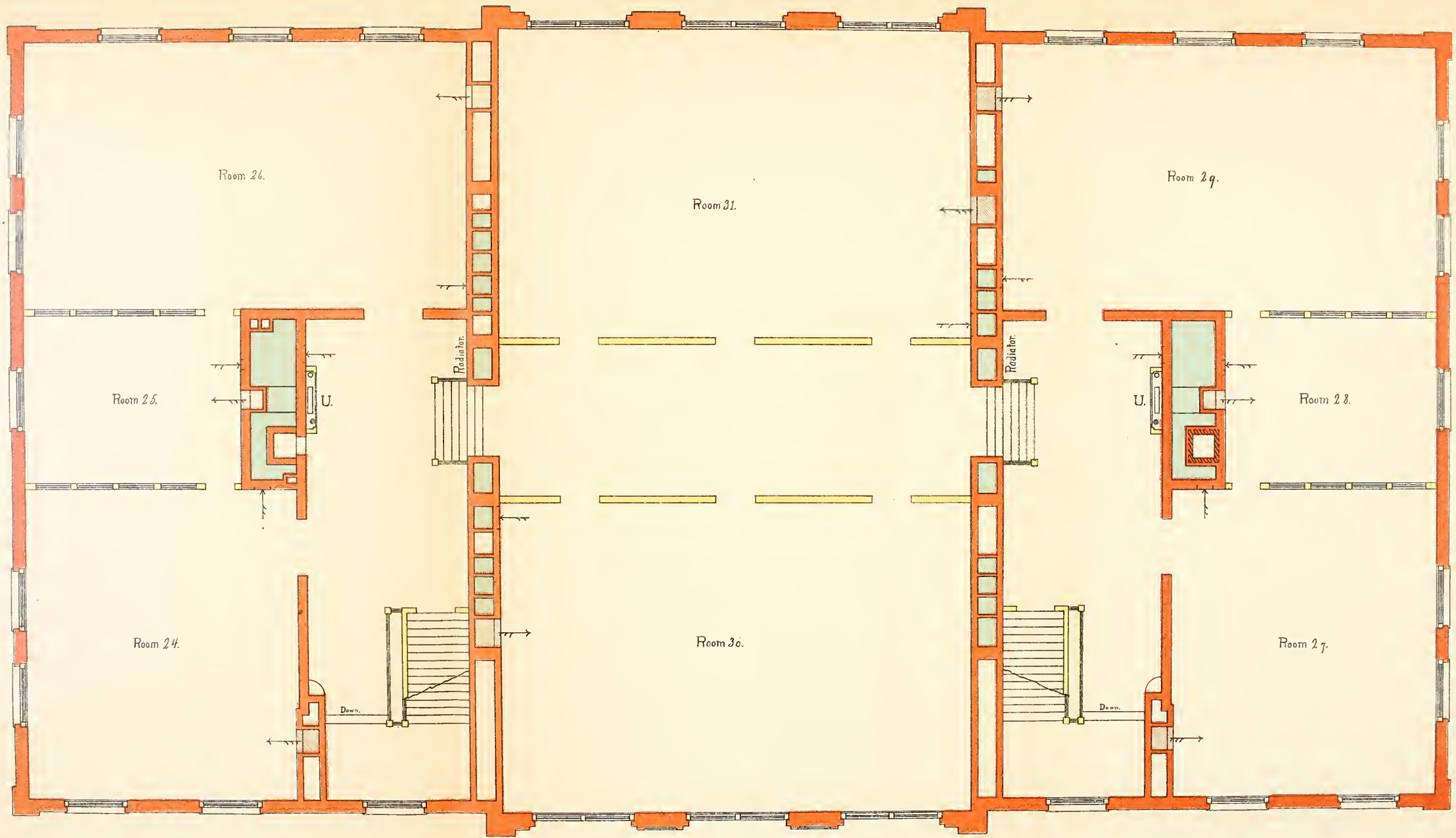
Heating and Ventilating, of the State Normal School.
North Adams, Mass.

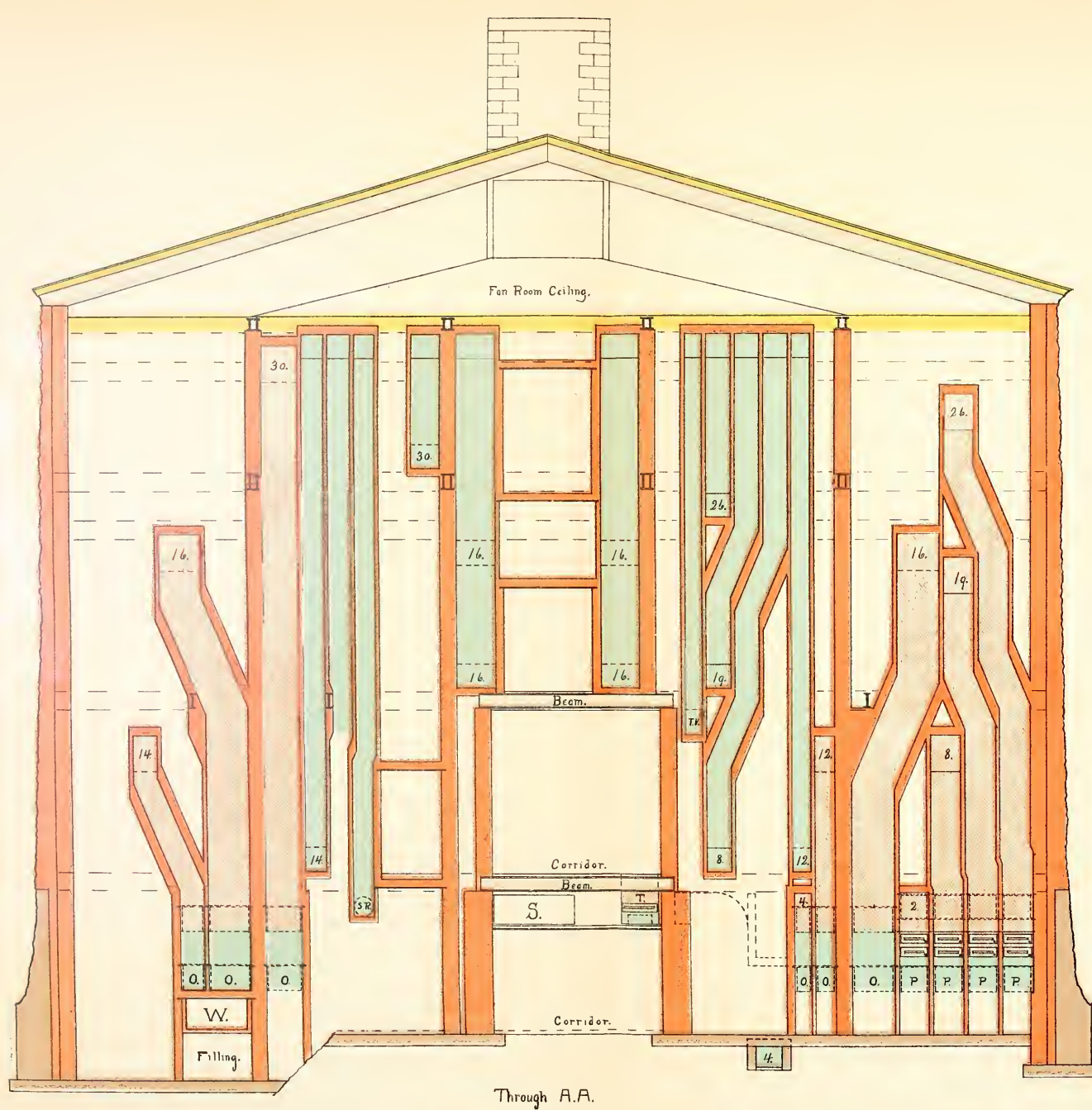
Friedrick W. Merriam

- Warm Air
- Stone
- Brick
- Wood
- Iron
- Foul & Cold Air

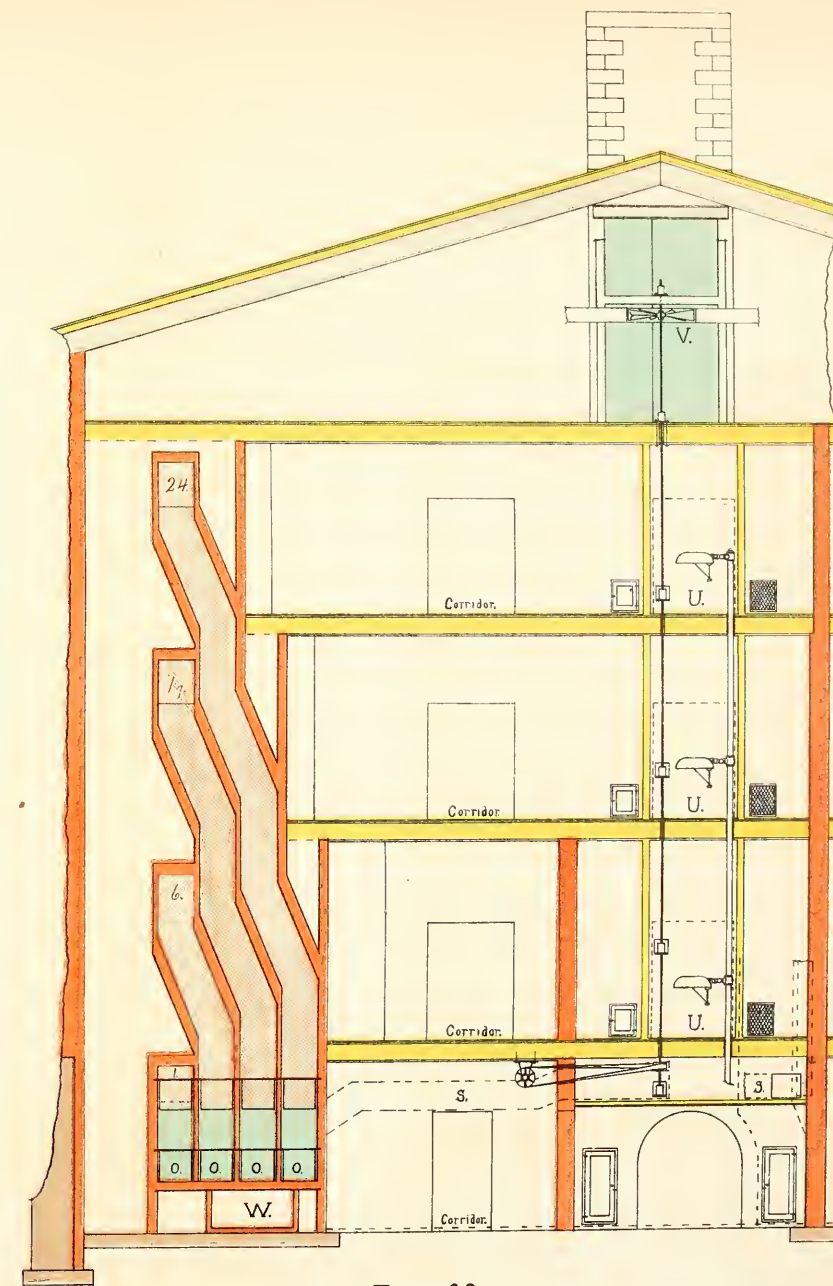




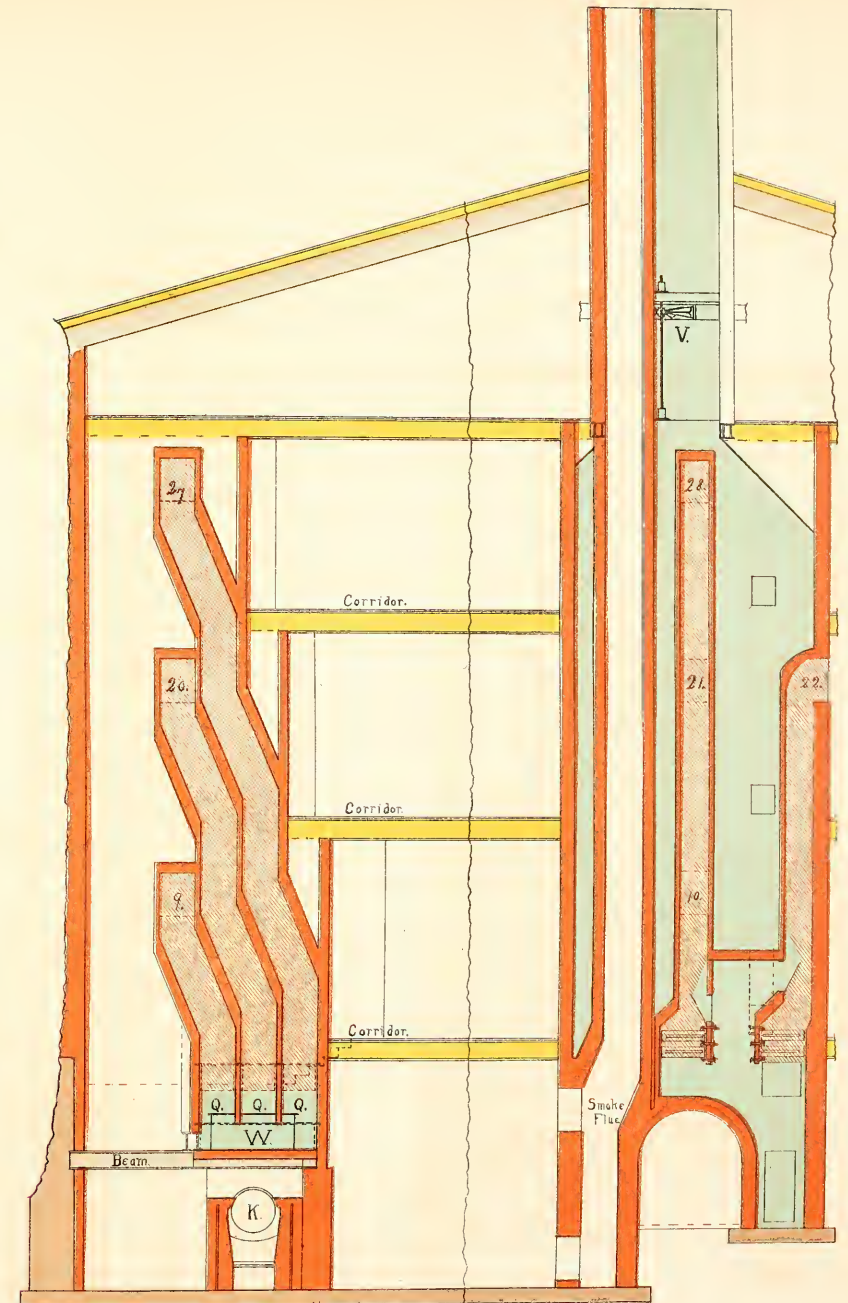
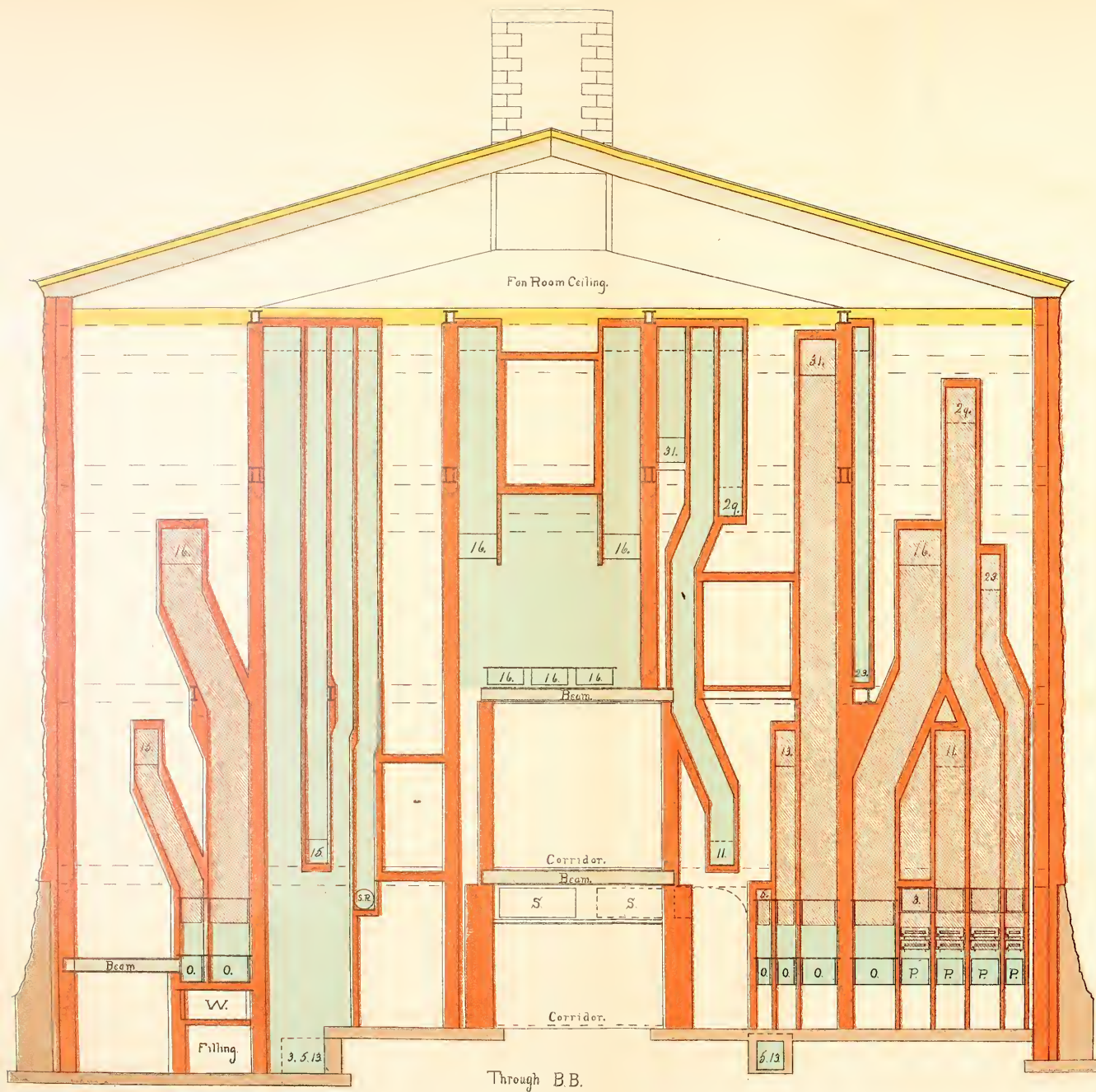


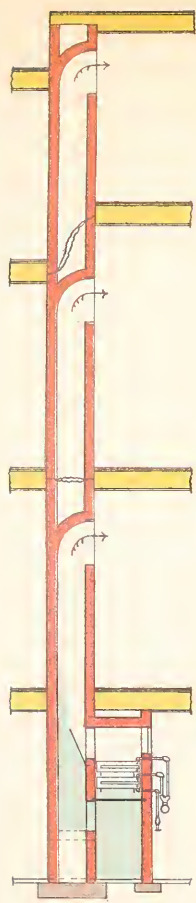


Through A.A.

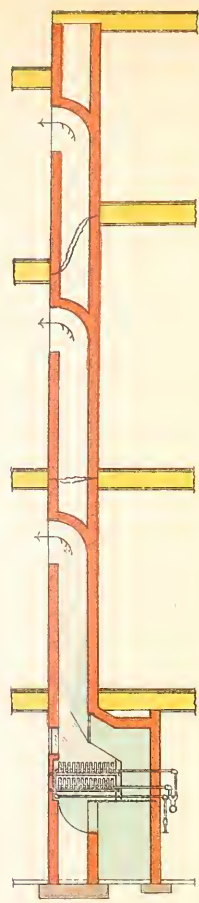


Through C.C.

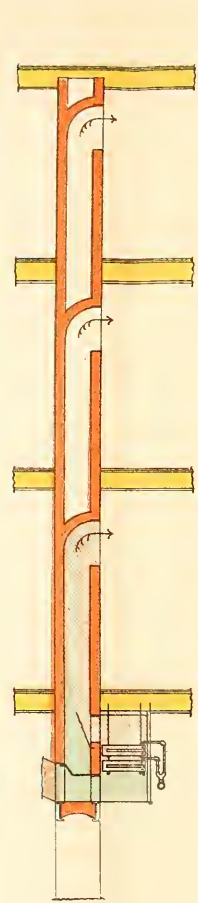




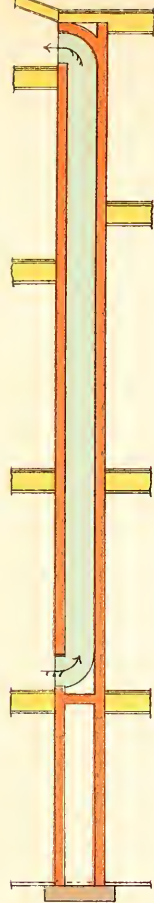
Chambers O.



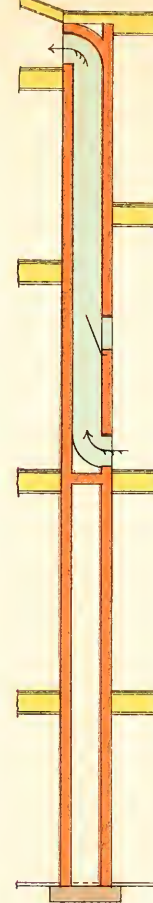
Chambers P.



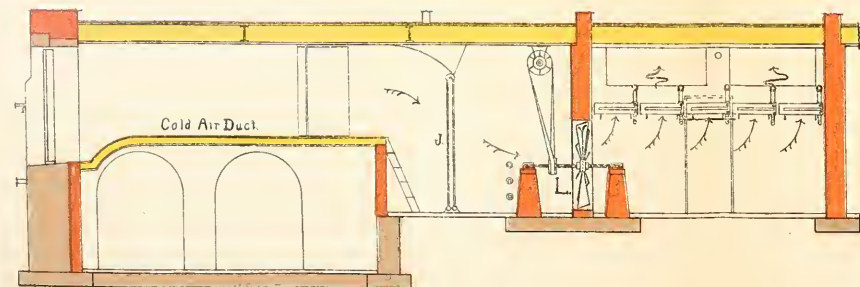
Chambers Q.



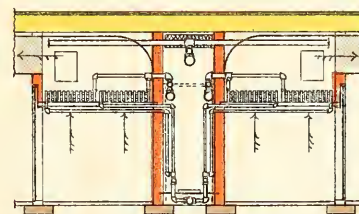
Regular Exhaust.



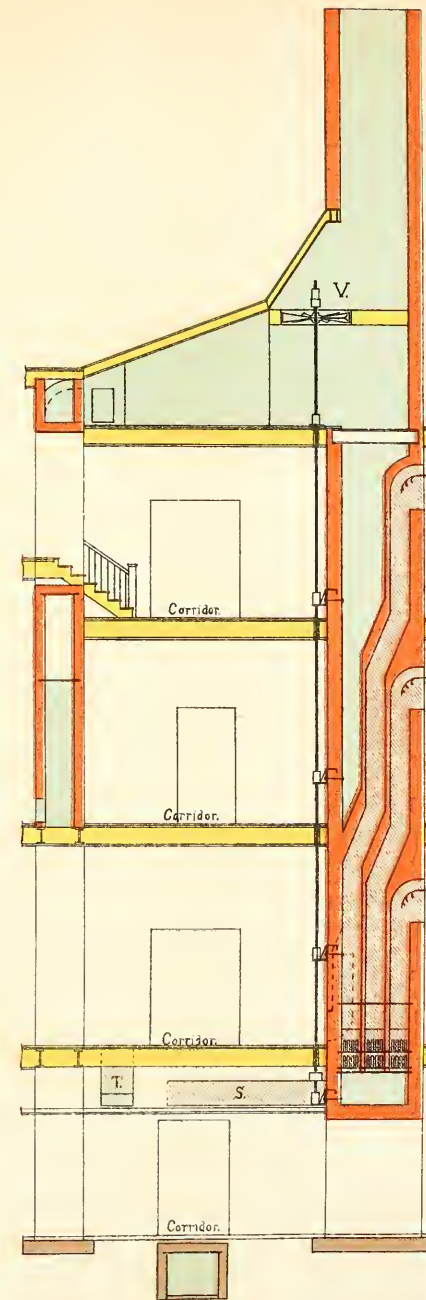
Room 16 Exhaust.



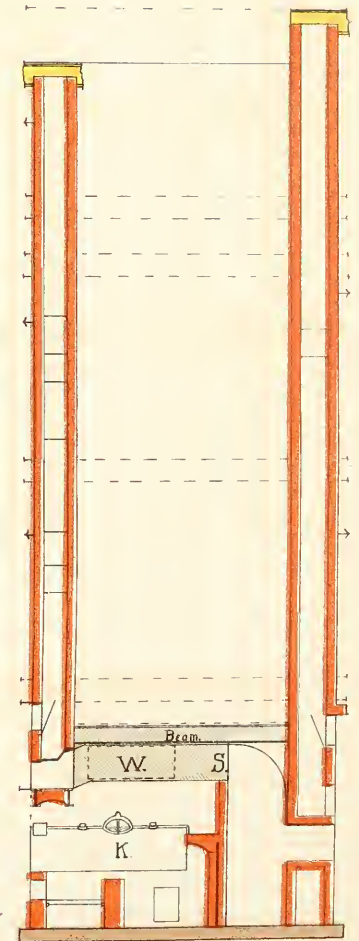
Through E.E.



Through F.F.



Through G.G.



Through H.H.

Heating and Ventilating, of the State Normal School.
North Adams, Mass.

Fredrick W. Merriam

exhaust flues by metal ducts (see dotted lines). TT are foot warmers, and for supplying the corridors with fresh air. They are provided with a suitable amount of heating surface for the work, and take the air from the primary heating chamber, the same as the rooms. UU show location of stand-pipe and hose racks for protection against fire, also the upright shafting of exhaust fans and the manner of concealing and protecting them.

Sheet 5, attic plan, shows the exhaust fan or foul-air gathering rooms, and their connection with the exhaust flues. They are lined with metal, about three feet in height at flue openings, with an increase to the fan opening of about four inches to the foot. The benefits of these rooms over the metal ducts usually used are many; among the most important are the small cost of construction, the convenience in equalizing the flues, the saving in power by avoiding friction and the better adaptation to the gravity work of the system.

Sheets 6 and 7, sectional views, through AA, CC, BB and D-D, show the general arrangement and carrying of warm-air and exhaust flues for the proper connections with their respective rooms, and to conform to the construction and door openings; the location of stand-pipe and hose racks; the exhaust fans and upright shafting, with manner of belting from main line; the waste chute doors and exhaust openings from corridors; the smoke flue and the supplementary heating surfaces and warm-air flues within the chimneys for the small rooms, the location of which is not shown on the basement plan, except the main feed pipes and connections.

Sheet 8, sectional views, through EE, shows the cold-air duct connections, the sub-primary heating coil J, the setting of plenum fans and the height of the primary heating surface; through FF, the manner of piping the double sections of primary heating surface and the connection of metal ducts; through GG, the exhaust fan rooms and connections, the manner of supporting the upright shafting and a cross section through the supplementary heating surface and warm-air flues within the chimneys; through HH, a longitudinal section through the power boiler setting and the manner of connecting the air with the heating chambers and flues above. The sections through chambers O-O, P-P and Q-Q show the setting and piping of the supplementary heating surface and the manner of mixing the air for their respective locations. The sections through exhaust flues show the regular floor openings, with check valves, and for room 16 additional openings about one-third down from ceiling, with switch valves, to be used in summer

season in connection with open windows and when gas lights are used, if desired.

General remarks: the main line of shafting is arranged to be run at three different speeds. At maximum speed the system will provide the building with three million cubic feet of air per hour, with a velocity in the upright flues not to exceed four hundred feet per minute. The reduction at medium speed is twenty-five per cent., and at minimum speed fifty per cent., of the above. The area of the warm-air inlets is fifty per cent. larger than that of the flues, and each is provided with a standard thermometer with perforated case, to indicate the temperature of the air entering the rooms. The combined heating surface being divided into eight separate sections for adaptation to varying conditions insures satisfactory temperatures, and, in connection with the arrangement and size of main pipes, which enable the boilers to be run at very low pressure in mild weather, must result in great economy in fuel. The mixing valves are arranged so as to be operated from the rooms and their respective heating-surface chambers in the basement. The corridors, in addition to the foot warmers in first story, are provided with direct radiators. The local ventilation of sanitariums and the apparatus of laboratories are provided for by an independent system, and are not shown on these plans.

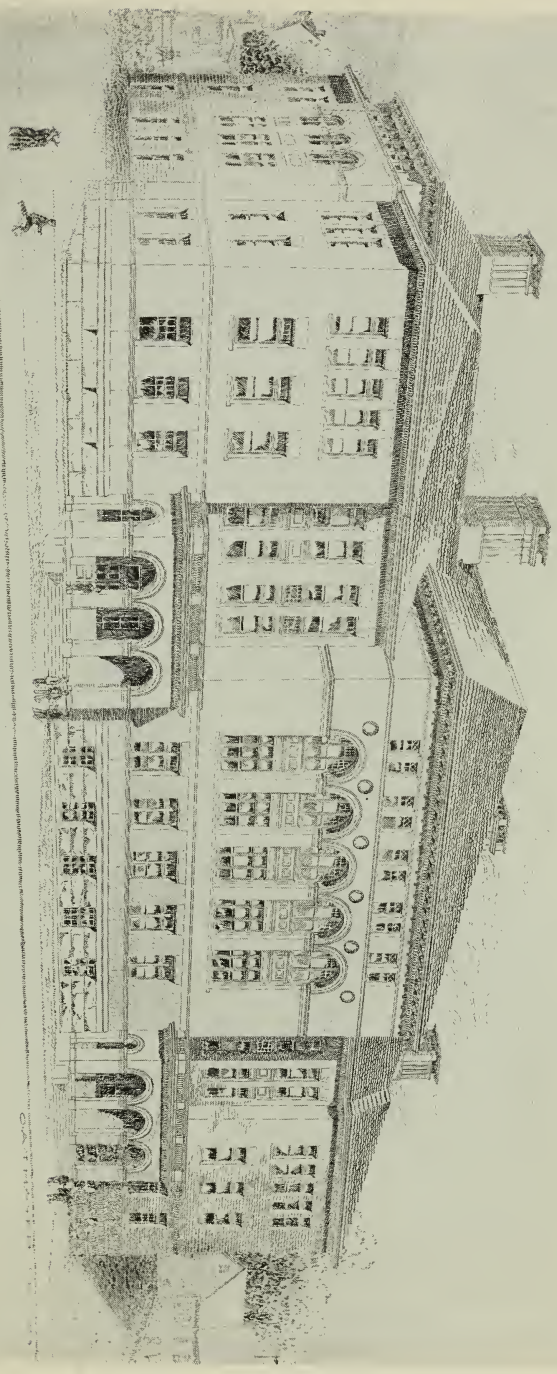
HIGH SCHOOL BUILDING, FITCHBURG.

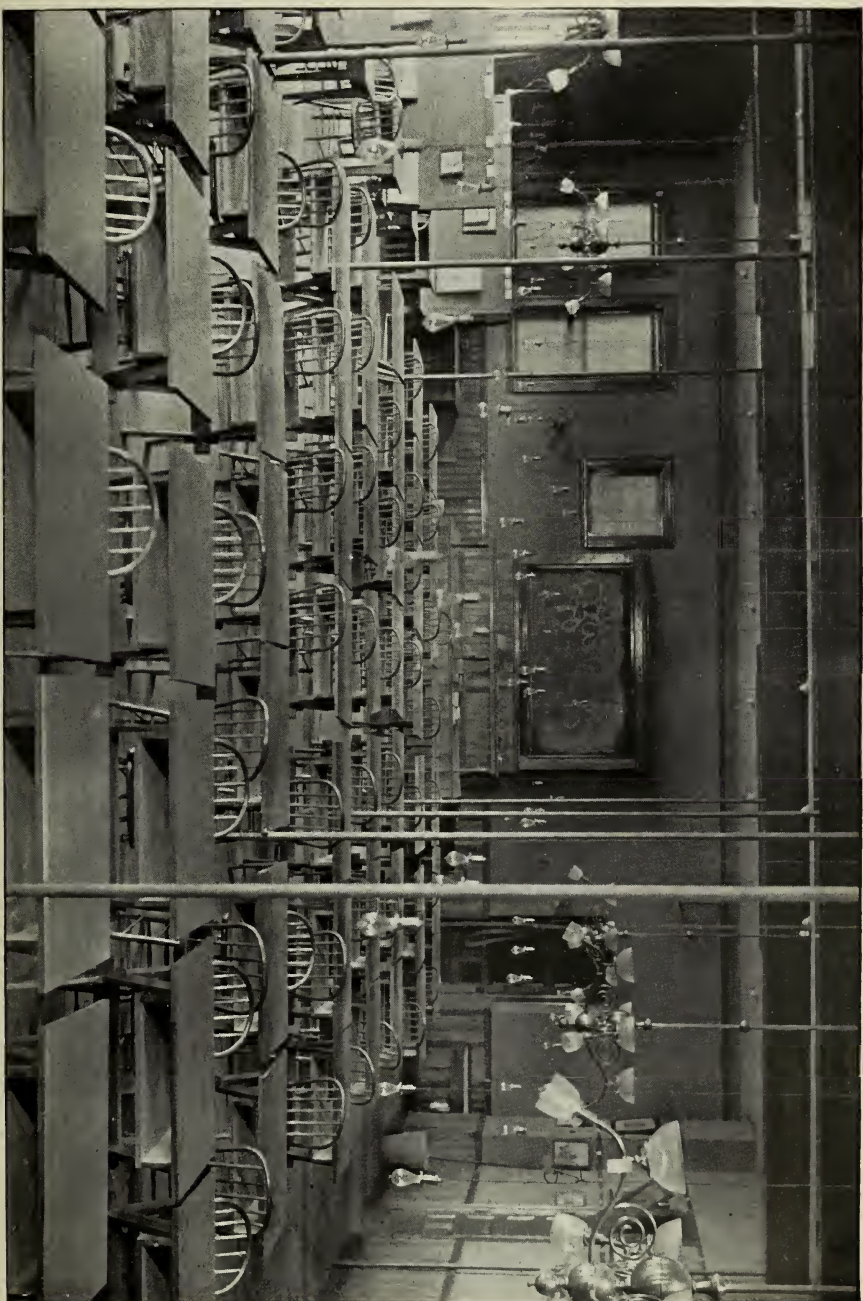
This magnificent structure was completed and dedicated September 2 of this year, from plans and specifications of N. M. Francis, architect, Fitchburg, Mass., and without doubt is one of the finest and best-equipped educational structures to be found in New England, and a lasting monument to the architect and the members of the different committees superintending the construction of the same.

The dimensions are 223 feet by 106 feet 6 inches, three stories and basement on the Academy Street side, which is really the front of the building. It contains forty rooms, including class rooms, recitation rooms, teachers' rooms, principal's room, library and assembly hall, — a fine room with gallery around the rear ends, and with a seating capacity of about seven hundred, which number can be easily accommodated. It is also amply provided on each floor with toilet and dressing rooms, with lockers for each pupil. Provision has also been made on first floor for lunch counters for both boys and girls, and each floor is furnished with drinking fountains. The building is heated by direct radiation, supplemented by a mechanical hot-air system. The third floor has a room seldom

ST. FRANCIS ARCHT

HIGH SCHOOL FITCHBURG MASS.





DRAWING ROOM. — HIGH SCHOOL BUILDING, FITCHBURG.



CHEMICAL LABORATORY. — HIGH SCHOOL BUILDING, FITCHBURG.

found in public buildings of any description, — an “emergency” room, where pupils can be taken in case of sudden illness. The physical and chemical laboratories are generously supplied with instruments; in fact, the entire building is furnished complete, and is a credit to the city of Fitchburg.

REPORTS OF INSPECTORS.

REPORT OF INSPECTOR WHITE.

SIR:—I have the honor to make the following report of the work done by me in the inspection of buildings since my last annual report. Such work as can be shown in that way is submitted in a tabulated form.

In the list of buildings which have been inspected in the course of regular work I have included only those where I found it necessary to give written orders for changes, as required by law. Nearly all such orders have been complied with, and such as are not so reported at this date are in process, or I have reason to believe will be complied with within the limit of time allowed by statute.

Another table gives a list of the plans of new buildings received by me within the last twelve months. In this table I have included, under the head of “changes recommended,” oral suggestions given in many cases to architects or owners before the plans were filed, as well as the necessary written orders given where plans when deposited were found not to conform to the provisions of law. I have done this because a large amount of time is taken up in such work that would not otherwise show in a report.

In matters of sanitation and ventilation, as I understand the law, suggestion and advice is all that we can offer in regard to plans. If I do not consider that the method of ventilation as shown on plans and specifications is the best that could be provided for the building at a reasonable cost, I can refuse to approve it. This throws the responsibility of its successful operation upon the owner or person having the work in charge. If the work when completed fails to conform to the provisions of the statutes, the inspector may then issue such orders for changes as he may deem to be necessary.

In all matters of ventilation and sanitation in public buildings I find a fast-growing sentiment among owners and architects of buildings as well as among building committees in favor of consulting with the inspectors of this department before proceeding with the work. The main opposition to such a course comes from parties having patented or particular systems which they desire to

introduce, and who fear the criticism of the inspectors if such schemes are submitted to their examination.

I believe it may be safely stated that when the law requiring public buildings to be properly ventilated was passed, in 1888, there were not six school-houses in the State that we should today consider well ventilated. Such being the case, it must, I think, be admitted that very much of the immense improvement made in ventilation in the last seven years is due to the operation of the law under the supervision of this department.

Hundreds of inspections of the various systems in use have been made, and careful reports of the same are on file in this office; and of course a large amount of information has been obtained in regard to the methods of ventilation now in use. Whether or not an inspector of this department is competent to lay out a scheme of ventilation for any particular building (and it appears that under the law it is no part of his duty to do such work), he is in many cases competent to tell a committee "how not to do it," as he may have on record many failures to secure good work by the method under consideration; and such advice may be as valuable as positive directions as to the best way to secure the best results.

There is, of course, a large amount of work done by an inspector of public buildings (more, perhaps, than in any other branch of this department) that cannot be shown in an annual report. A large number of visits must be made to buildings to ascertain whether changes ordered in ways of egress or means of protection from fire have been properly carried out. A careful inspection is also made, as before stated, of the means of ventilation in every new school-house, and carefully made tabulated reports of same filed in this office. In addition to this and other work, requests from cities and towns for the inspection of buildings within their limits, represented to be dangerous, are increasing from year to year. I have had, I believe, more such work to do in the past year than ever before, and in some cases the determination of the safe or unsafe condition of the buildings required expert knowledge of construction and careful calculation of the strength of materials.

I have the pleasure to note, as in years past, a continual improvement in the construction of new buildings in all matters coming under control of the State laws. Better ways of egress, better protection from fire, better means of ventilation are now provided by architects in planning buildings than were ever before exhibited. All this is very gratifying to an inspector who not only desires to do his duty in a conscientious manner but who also hopes that his work may result in greater safety to life and property.

*Report of Buildings Inspected.*CLASS No. 1, DISTRICT No. 1. JOHN T. WHITE, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Arlington.		
Masonic hall,	Fire-escape; doors to open out; means of extinguishing fire to be provided.	Complied.
Billerica.		
Asa Pollard school,	Better protection from fire in cellar; improvement in ventilation.	-
Cambridge.		
Sleeper school,	Wooden duct to be removed,	Complied.
Danvers.		
Tapleyville school,	Better ventilation,	-
Essex.		
Town hall,	Fire-escape; doors to open out; fire-proof curtain for stage; fire apparatus.	-
Haverhill.		
Hoyt's block,	Wooden ducts to be removed; door to open out.	Complied.
Lowell.		
Highland hall,	Doors to open out; fire-escape,	-
Music hall,	Stairs to be railed; better fire apparatus.	Complied.
Malden.		
Tonti hall,	Doors to open out; stairs to be railed,	Complied.
Emerson school,	Additional stairway,	Complied.
Medford.		
Swan school,	Better ventilation,	-
Reading.		
G. A. R. hall,	Fire-escape,	Complied.
Woburn.		
Woburn theatre and skating academy.	Changes in egress; better protection from fire.	-

*Plans Received and Changes Recommended.*DISTRICT No. 1. JOHN T. WHITE, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Flint's block,	Andover,	Better egress; ventilation.
High school,	Medford,	- -
Billings Street school,	Lowell,	- -
Carlton Street school,	Salem,	- -
Hoyt's block,	Haverhill,	Change in rear doors; cold-air ducts.
Hart's block,	Woburn,	Doors to open out; better fire-escape.
Brooks' building,	Gloucester,	Better fire-stops; ventilation.
Damon building,	Ipswich,	Change in egress; ventilation.
Magnolia school,	Gloucester,	Better ventilation.

Plans Received, etc. — Continued.

BUILDING.	Location.	Changes Recommended.
Brown's block,	Malden,	One fire-escape.
Osborne's block,	Lynn,	Better egress; ventilation.
Police station,	Medford,	Better ventilation.
Alms-house,	Lynn,	Stairs to be widened and railed and enclosed in brick walls; fire stops put in; doors to open outwardly; fire-escapes; better ventilation.
G. A. R. hall,	Arlington,	- -
Hillside school,	Medford,	- -
Armory,	Wakefield,	- -
High school,	Malden,	Some changes in ventilation.
Broadway Congregational Church, .	Somerville,	Better ventilation; additional doorway.
Ward 3 school,	Cambridge,	Changes in ventilation.
Y. M. C. A. building,	Malden,	Changes in stairs; ventilation.
Lyceum hall,	Marblehead,	Changes in egress; ventilation.
Grace Church,	Lowell,	Better ventilation.
Hospital for contagious diseases, .	Lynn,	- -
Currier building,	Salem,	Better ventilation.
Perry's block,	Danvers,	Escape from fire; better ventilation.
Dunstable school,	Dunstable,	Improvement in ventilation.
Holy Ghost Home,	Cambridge,	- -
Home for Aged Poor,	Somerville,	- -
Union school,	Littleton,	- -
Holland Street school,	Somerville,	- -
Washington school,	Beverly,	Better fire-stops.
Peabody school,	Bradford,	- -
Emerson school,	Malden,	Additional stairway.
Turn Halle,	Lawrence,	Changes in egress; ventilation.
Warren school,	Everett,	- -
Sacred Heart Church,	Lynn,	- -
Congregational Church,	Melrose,	Improvement in ventilation.
School,	Ipswich,	- -
Cook Street school,	Lynn,	- -
Y. M. C. I. building,	Lowell,	Changes in stairway; ventilation.
School,	Gloucester,	- -
Court house,	Lowell,	- -
Armory,	Newburyport,	- -
Tapleyville school,	Danvers,	- -
Linden school,	Malden,	Changes in stairs.

Plans Received, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Old grammar school,	Saugus,	- -
Crosby school,	Arlington,	- -
Men's gymnasium, Massachusetts General Hospital.	Belmont,	- -
Steele's block,	Stoneham,	Fire-escape.
First Presbyterian Church, . . .	Lynn,	Better ventilation.
Newtown Club,	Cambridge,	Changes in egress; ventilation.
Chapel Street school,	Gloucester,	- -
Stearns building,	Cambridge,	Better egress; ventilation.
Elm Street school,	Everett,	- -
St. Joseph's Church,	Medford,	- -
I. O. O. F. building,	Lynn,	Changes in egress; ventilation.
Melrose Club,	Melrose,	Fire-stops; changes in egress.
Friends Church,	Lawrence,	- -
Besse, Rolfe & Co.,	Lynn,	Fire-escape.
Washington school,	Winchester,	- -
Ward 7 school,	Malden,	- -
School,	Reading,	- -
State normal school,	Lowell,	- -

REPORT OF INSPECTOR BARDWELL.

I herewith submit a tabulated statement of the plans received and changes recommended during the past year, together with another of the inspections made; the latter, however, does not include a list of inspections of between two and three hundred tenement-houses, which were necessary in order to determine whether they properly came under the provisions of the law requiring better egress. I continually find apartment and tenement houses being erected containing eight and nine rooms above the second story, for which plans cannot be called for and to which cannot be applied the requirements of this department regarding fire-stops and the ways of egress, because the law specifies that there must be ten or more rooms above the second story in order to bring them within our jurisdiction. It is to be regretted that such a limit exists, as many such buildings could be made safer at a small expense to the owners.

The larger number of plans received have been obtained by personal solicitation while the buildings were in process of con-

struction, and in some cases after they were entirely finished and occupied, such neglect often occasioning the owners considerable expense to make them conform to the law; sometimes, however, this neglect has been through ignorance on the part of those who have but limited experience in building.

The statute requiring the engineers of the fire departments of the cities and towns to report to the chief of the district police the condition of the hotels as regards rope fire-escapes has not been generally complied with in my district during the past year, and in most hotels that I have visited it has been necessary to order additional ropes. In one hotel which changed proprietors I found that the retiring manager had carried away all of the ropes which had been put in the year previous.

As will be seen by reference to the tabulated statement, most of the orders given have been complied with, and of those remaining nearly all are in process, and will be finished in the near future.

Plans Approved and Changes Recommended.

DISTRICT No. 1. HENRY J. BARDWELL, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Moore's apartment house, . . .	Arlington, . . .	No orders.
Allen & Endicott Co.'s factory, . .	Cambridge, . . .	No orders.
Mahoney's apartment house, . . .	Cambridge, . . .	Fire-stops.
Matthews's apartment house, . . .	Cambridge, . . .	Fire-stops.
The "Middlesex" apartment house,	Cambridge, . . .	Fire-stops.
Henderson's carriage factory, . . .	Cambridge, . . .	Fire-stops; egress.
Farrell's apartment house, . . .	Cambridge, . . .	No orders.
Hotel Greyburn,	Cambridge, . . .	No orders.
Hotel Bertha,	Cambridge, . . .	No orders.
Moller's apartment house, . . .	Cambridge, . . .	No orders.
Jensen's candy factory,	Cambridge, . . .	Additional egress.
McCloskey's apartment house, . .	Cambridge, . . .	Fire-stops.
McFarlane's apartment house, . .	Cambridge, . . .	Fire-stops.
Belliveau's apartment house, . . .	Cambridge, . . .	Fire-stops and fire-escape.
Hotel Charles,	Cambridge, . . .	Fire-stops and fire-escapes.
Balmer's factory,	Cambridge, . . .	No orders.
Ginn & Co.'s factory,	Cambridge, . . .	No orders.
Ferdinand's apartment house, . . .	Cambridge, . . .	No orders.
Hotel Union,	Cambridge, . . .	No orders.
Donovan's apartment house, . . .	Cambridge, . . .	No orders.

Plans Approved, etc. — Continued.

BUILDING.	Location.	Changes Recommended.
Telford House,	Cambridge, . . .	No orders.
Wadden's apartment house, . . .	Cambridge, . . .	No orders.
Taylor's lodging-house,	Cambridge, . . .	Additional egress.
The "Elias Howe" apartment house,	Cambridge, . . .	Fire-stops.
Thurston's apartment house (1), . .	Cambridge, . . .	Fire-stops.
Thurston's apartment house (2), . .	Cambridge, . . .	Fire-stops.
Barnard's apartment house,	Cambridge, . . .	Fire-stops.
"The Highland" apartment house,	Cambridge, . . .	Fire-stops.
Reversible Collar Company's factory,	Cambridge, . . .	No orders.
Traynor's apartment house,	Cambridge, . . .	Fire-stops.
Green's apartment house,	Cambridge, . . .	No orders.
Moore's apartment house,	Cambridge, . . .	No orders.
Strauss's apartment house,	Cambridge, . . .	Fire-stops.
"The Saxon" apartment house, . . .	Cambridge, . . .	No orders.
Burn's apartment house,	Cambridge, . . .	No orders.
Ford's apartment house,	Cambridge, . . .	Fire-stops.
Trinity Hall (dormitory),	Cambridge, . . .	Additional egress.
Stevenson's apartment house,	Cambridge, . . .	No orders.
Tarlanski's apartment house,	Cambridge, . . .	No orders.
"The Hersum" apartment house, . . .	Cambridge, . . .	No orders.
Perry's apartment house,	Cambridge, . . .	No orders.
Hotel Leister,	Cambridge, . . .	No orders.
Green's apartment house,	Cambridge, . . .	No orders.
Bradbury's apartment house,	Cambridge, . . .	No orders.
Fillmore's apartment house,	Cambridge, . . .	No orders.
Rafferty's apartment house,	Cambridge, . . .	No orders.
Engine house No. 3,	Cambridge, . . .	No orders.
Harty's apartment block,	Cambridge, . . .	Fire-stops.
Engine house No. 7,	Cambridge, . . .	No orders.
Batchelder's lodging-house,	Everett, . . .	Additional egress.
Richardson's hotel,	Lowell, . . .	No orders.
Appleton Company's storehouse, . . .	Lowell, . . .	No orders.
Geo. L. Cady's factory,	Lowell, . . .	No orders.
Charles H. Allen's factory,	Lowell, . . .	No orders.
Tremont and Suffolk mill addition,	Lowell, . . .	No orders.
"The Southwick" apartment house,	Malden, . . .	Fire-stops.
Graffam's tenement-house,	Malden, . . .	Additional egress.
Simpson and Marr's apartment house,	Malden, . . .	Additional egress.

Plans Approved, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Butland's apartment house, . . .	Malden, . . .	No orders.
Rhodes's apartment block, . . .	Malden, . . .	Fire-stops.
Engine house,	Malden, . . .	No orders.
Kelley's apartment house, . . .	Malden, . . .	Fire-stops.
Potter building,	Medford, . . .	No orders.
"The Bigelow" apartment house, .	Melrose, . . .	Additional egress.
Warde's Health Home,	Melrose, . . .	No orders.
Central fire station,	Melrose, . . .	No orders.
Goss's apartment house,	Melrose, . . .	Additional egress.
Boston Rubber Shoe Company's storehouse.	Melrose, . . .	No orders.
Porter's "Wyoming building," . .	Melrose, . . .	Fire-stops.
Laighton's apartment house, . . .	Somerville, . .	Additional egress.
Derby, Kilmer & Pond Desk Com- pany's factory.	Somerville, . .	No orders.
"The Bradford" apartment house,	Somerville, . .	No orders.
Sprague & Hathaway Company's factory.	Somerville, . .	No orders.
Coffin's apartment house,	Somerville, . .	No orders.
"The Cumberland" apartment house,	Somerville, . .	No orders.
"The Central" apartment house, .	Somerville, . .	No orders.
Central fire station,	Somerville, . .	No orders.
Locke's apartment house,	Somerville, . .	Fire-stops.
Hotel Montrose,	Somerville, . .	No orders.
Hotel Marshall,	Somerville, . .	No orders.
Hotel Buckingham,	Somerville, . .	No orders.
The Grand View apartment house,	Somerville, . .	No orders.
Evans's shoe factory,	Wakefield, . .	Fire-escape.
Woburn Hills Manufacturing Com- pany's factory.	Woburn, . . .	No orders.

*Report of Buildings Inspected.*CLASS NO. 1, DISTRICT NO. 1. HENRY J. BARDWELL, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Arlington.		
Finance Club building,	No orders,	-
Almshouse,	Fire-escape,	Complied.
Arlington House,	No orders,	-
Ayer.		
Piper's vinegar factory,	No orders,	-
The Taylor House,	Rope fire-escapes,	Complied.
Globe Hotel,	Fire-pails; repair rope fire-escapes, .	Complied.
American House,	No orders,	-
The Merrill-James Shoe Company,	Provide steps to fire-escape,	Complied.

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Cambridge.		
Jensen Brothers' factory, . . .	Rope fire-escapes, . . .	Complied.
Walsh's tenement-house, . . .	Additional egress, . . .	Complied.
Luke's factory building, . . .	Fire-escape; renew fire-hose, . . .	Complied.
Broadway House, . . .	Rope fire-escapes, . . .	Complied.
Cleveland House, . . .	Rope fire-escapes, . . .	Complied.
Porter's Hotel, . . .	Rope fire-escapes, . . .	Complied.
The Charles, . . .	Fire escapes; doors cut through, . . .	Complied.
Seaverns piano action factory, . . .	No orders, . . .	—
Hotel Bertha, . . .	No orders, . . .	—
Raymond's apartment house, . . .	No orders, . . .	—
McKelleget's apartment house, . . .	Fire-escapes; doors cut through, . . .	Complied.
Leitch's tenement-house, . . .	Fire-escapes; doors and window cut through, . . .	Complied.
Blake's tenement-house, . . .	No orders, . . .	—
McCabe's tenement-house, . . .	Fire-escape, . . .	Complied.
Felton hall, . . .	Rope fire-escapes, . . .	Complied.
Hegerty's tenement-house, . . .	No orders, . . .	—
McGrath's tenement-house, . . .	No orders, . . .	—
Ware hall, . . .	Fire-escape; rope fire-escapes, . . .	Complied.
The Stanstead, . . .	No orders, . . .	—
Beck hall, . . .	Rope fire-escapes, . . .	Complied.
Claverly hall, . . .	Rope fire-escape, . . .	Complied.
The Conant, . . .	No orders, . . .	—
The Perkins, . . .	No orders, . . .	—
The Hastings, . . .	No orders, . . .	—
Balmer's factory building, . . .	No orders, . . .	—
Quigley's tenement-house, . . .	Fire-escape; cut doors through, . . .	Complied.
Blake's tenement-houses (2), . . .	No orders, . . .	—
Regan's tenement-house, . . .	No orders, . . .	—
Buckley's lodging-house, . . .	No orders, . . .	—
Reis tenement-house, . . .	Fire-escape, . . .	Complied.
Murphy's tenement-house, . . .	No orders, . . .	—
The James, . . .	No orders, . . .	—
Sparrow's candy factory, . . .	No orders, . . .	—
Squire's tenement-house, . . .	Fire-escape; cut doors through, . . .	Complied.
Squire's lodging-house, . . .	Fire-escape; cut doors through, . . .	Complied.
Hotel Harvard, . . .	Rope fire-escapes; raise other ropes five feet from floor; put in door, . . .	Complied.
Heffernan's tenement-house, . . .	Fire-escape; cut windows through, . . .	Complied.
Quincy hall, . . .	Rope fire-escapes, . . .	Complied.
Holyoke House, . . .	Rope fire-escapes, . . .	Complied.
Donovan's tenement-house, . . .	No orders, . . .	—
Trinity hall, . . .	Fire-escape, . . .	Building vacated.
Telford House, . . .	No orders, . . .	—
Brattle Square Hotel, . . .	Rope fire-escapes, . . .	Complied.
McNamee's block, . . .	No orders, . . .	—
The Boylston, . . .	No orders, . . .	—
Lerner hall, . . .	Rope fire-escapes, . . .	Complied.
The Saxon, . . .	No orders, . . .	—
Purcell's lodging-house, . . .	Rope fire-escapes, . . .	Complied.
The Hersum, . . .	No orders, . . .	—
The Winthrop, . . .	No orders, . . .	—
Taylor's lodging-house, . . .	Rope fire-escapes, . . .	Complied.
The Bigelow, . . .	No orders, . . .	—
Hotel Union, . . .	No orders, . . .	—
Rourke's tenement-house (1), . . .	Fire-escape, . . .	Complied.
Rourke's tenement-house (2), . . .	Fire-escape, . . .	Complied.
Rourke's tenement-house (3), . . .	Fire-escape, . . .	Complied.
Rourke's tenement-house (4), . . .	Fire-escape, . . .	Complied.
Rourke's tenement-house (5), . . .	Fire-escape, . . .	Complied.
Rourke's Hotel Sickles, . . .	Fire-escape, . . .	Complied.
Rourke's Hotel Hooker, . . .	Fire-escape, . . .	Complied.
Rourke's Hotel Hancock, . . .	Fire-escape, . . .	Complied.
Hotel Leicester, . . .	No orders, . . .	—
American Rubber Company, . . .	Additional egress, . . .	Complied.
Southwick's factory building, . . .	Fire-escape; repair stairways, . . .	Complied.
Richardson's tenement-house, . . .	Brick fire-wall in cellar, . . .	Complied.
Shepherd's block, . . .	No orders, . . .	—
Rapier's lodging-house, . . .	Fire-escape; cut doors through, . . .	Complied.
Concord.		
The Thoreau House, . . .	Rope fire-escapes, . . .	Complied.
Wright's Tavern, . . .	Raise ropes five feet from floor, . . .	Complied.
Bowker's Hotel, . . .	No orders, . . .	—

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Everett.		
Pratt's yarn factory,	No orders,	-
Richardson's apartment house,	No orders,	-
Lexington.		
Thollden's lodging-house,	Rope fire-escapes,	Complied.
Griffin's lodging-house,	Rope fire-escapes,	Complied.
Russell House,	No orders,	-
Keeley Institute,	No orders,	-
The Leslie Hotel,	Rope fire-escapes,	Complied.
Lowell.		
Hill's block,	Repair iron fire-escape; rope fire-escapes.	-
Richardson's Hotel,	No orders,	-
Caleff block,	Rope fire-escapes,	Complied.
Dupre's tenement block (1),	Repair fire-escape,	Complied.
Dupre's tenement block (2),	No orders,	-
Dupre's tenement-house (1),	Repair fire escape bridges,	Complied.
Dupre's tenement-house (2),	No orders,	-
Dupre's tenement-house (3),	No orders,	-
Dupre's tenement-house (4),	No orders,	-
Austin block,	Repair fire-escape,	-
Jodoin's tenement block,	No orders,	-
Jodoin's new block,	No orders,	-
Laporte's tenement-house,	Repair fire-escapes,	-
Thompson's block,	Repair fire-escapes,	-
Marin's tenement-house,	No orders,	-
Farrington's tenement block,	Repair fire-escape,	Complied.
Farrington's tenement-house,	Fire-escape; repair fire-escape,	-
Harris' tenement-house (1),	Repair fire-escape bridges,	Complied.
Harris' tenement-house (2),	Rebuild six fire-escape bridges of iron,	Complied.
Harris' tenement-house (3),	Rebuild six fire-escape bridges of iron,	Complied.
Harris' tenement block (1),	Repair wooden balconies,	Complied.
Harris' tenement block (2),	Repair bridges,	Complied.
Bibault's tenement-house,	No orders,	-
Marin's tenement block (),	No orders,	-
Marin's tenement block (2),	Repair fire-escape bridges,	Complied.
Campbell & Hanscom building,	Better egress,	Complied.
Dexter's tenement block (1),	Repair two fire-escapes,	Complied.
Dexter's tenement block (2),	Repair fire-escape bridges,	Complied.
The Farragut House,	Iron fire-escape: rope fire-escapes; fire-pails.	-
Malden.		
Joslin & Company's store,	Additional egress,	Complied.
Stoddard's lodging-house,	No orders,	-
Medford.		
Star block,	Asbestos over boiler,	Complied.
Potter building,	No orders,	-
Robertson block,	No orders,	-
Melrose.		
Adams tenement-house,	Rope fire-escapes,	Complied.
Baker's moulding factory,	No orders,	-
Sircom's skirt factory,	Fire-escape,	Complied.
Atwood House,	Rope fire-escapes,	Complied.
Hotel Bigelow,	Rope fire-escapes,	Complied.
Aldine House,	Fire-pails,	Complied.
The Granville Hotel,	Rope fire-escapes,	Complied.
Hyde's lodging-house,	Fire-pails,	Complied.
Saunders's lodging-house,	No orders,	-
Goss's apartment block,	Rope fire-escapes,	-
North Billerica.		
Faulkner Manufacturing Company,	No orders,	-
Talbot mills,	No orders,	-
Gannon's tenement-house,	No orders,	-
Reading.		
Cropley's shoe factory,	No orders,	-
Damon's necktie factory,	Better egress,	Complied.

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Somerville.		
Miller Brothers' corporation, . . .	No orders,	-
Cushman Brothers' factory, . . .	No orders,	-
Sprague & Hathaway, factory, . .	No orders,	-
Hotel Woodbridge,	No orders,	-
The Bradford,	No orders,	-
The Cumberland,	No orders,	-
The Highland,	No orders,	-
Carr's jewelry factory,	No orders,	-
Hotel Warren,	Rope fire-escapes; fire-pails, . .	-
Stoneham.		
Spencer's lodging-house,	No orders,	-
Dunklee's shoe factory,	Fire-escape,	Complied.
Jenkins shoe factory,	No orders,	-
Jones shoe factory,	No orders,	-
Hotel Langwood,	Rope fire-escapes,	Complied.
Hill Cottage,	Rope fire escapes,	-
Lakeview Cottage,	Rope fire-escapes,	-
Grove Cottage,	Rope fire escapes,	-
Colahan's shoe factory,	No orders,	-
Kenney's shoe factory,	No orders,	-
Wakefield.		
Evans shoe factory,	Fire-escape,	Complied.
Waltham.		
Central House,	No orders,	-
Watertown.		
Union market house,	Raise rope fire-escapes from floor, .	Complied.
Winchester.		
McKay Metallic Fastening Associ- ation.	No orders,	-
Woburn.		
Briggs' plating factory,	Additional egress,	Complied.
Middlesex Leather Company, . . .	No orders,	-
Bridges necktie factory,	No orders,	-

REPORT OF INSPECTOR MOORE.

SIR:—A tabulated report will give but a partial showing of the duties performed by me the past year. A considerable part of the time has been taken up with the examination and making of plans; consultations with architects, engineers, building committees and owners of buildings; examination of buildings in process of construction; inspection of buildings reported as unsafe; testing and examining various systems and methods of warming and ventilating public buildings; and other duties of a like nature.

In the warming and ventilating of schools and public buildings noticeable improvement has been made, and I believe Massachusetts, in buildings of this class, will compare favorably with any State in the Union. There seems to be a steady growth of public opinion as to the necessity of properly warming and ventilating public buildings.

If architects and building committees would confer with this department they would receive without cost the latest information regarding successful methods of heating and ventilation. This information is derived from tests made and actual results obtained, and not from the untried theories of any person, neither is it of an experimental nature; and cities and towns following the advice of this department will not be put to the expense of experimenting to prove or disprove theories of persons who wish not only to have their schemes tested but also to receive a liberal compensation from the cities or towns. Many cities and towns have paid dearly for trying experiments and testing the untried theories of so-called experts. In many cases these experiments have proved bad failures, and in some cases the apparatus has been removed from the buildings and other systems substituted at great expense. If before plans are accepted or contracts made the plans and specifications for the heating and ventilation were submitted to this department, information would cheerfully be given that would go far towards preventing errors.

Some parties endeavor to have plans made and contracts signed before the inspectors see or approve the plans. Is it because they fear to meet the just criticisms of the inspectors? By seeing and testing hundreds of buildings and all classes of ventilation the inspectors have been able to obtain statistics and become familiar with the practical results obtained. If committees would require from contractors or engineers designing heating and ventilating apparatus a good and sufficient bond that the work would come up to the State standard, much annoyance and expense would be saved. If a contractor or engineer is sure his work is all right, what harm would it do him to give a guarantee? If he knows or thinks his work is not up to standard, is it not natural that he would object to giving a guarantee or anything that would hold him responsible in case of failure? Does not a refusal to guarantee by a suitable bond lead to a suspicion that the results may not be what are promised? If no guarantee is given, neither the engineer who plans nor the contractor who does the work are pecuniarily responsible, and the city or town may be put to considerable trouble and expense to make required changes.

I give the results as shown by careful tests in a few of the modern school buildings in my district. Many others could be given.

Madison Avenue School, New Bedford.

A new brick, two-story, eight-room building, heated by indirect steam and ventilated by separate brick flues from each room, the outflow of foul air being caused by steam pipes placed about one

foot above the outlets from the school-rooms. The test was made under conditions not the best for obtaining high results. Weather, fair; outside temperature, 44° ; barometer, 30.8; humidity, 85; wind, south-south-east, very light. In no room did the temperature vary more than two degrees on the top of the four corner desks, and in most of the rooms the difference was from nothing to one degree. The vent ducts were wide open and the steam full on in the pipes in the vent shafts. Allowing for 400 pupils and teachers (50 per room), the air supplied at the inlets was 41.95 cubic feet per person, and the amount exhausted through the vent ducts was 60.23 cubic feet per person, per minute. The difference between supply and exhaust through the ducts was caused by the outlets working stronger than the inlets, and the air being drawn into the room through the many almost imperceptible spaces about the doors, windows, walls, ceiling and floors; but no uncomfortable drafts could be perceived in any part of the building.

Edward Devotion School, Brookline.

A new brick two-story, six-room building, heated by indirect steam, with direct for night use. Weather, fair; outside temperature, 29° ; barometer, 30.5; humidity, 31; brisk north-westerly breeze. One pound of steam on boiler. Rooms seated 42 pupils. Allowing for 258 pupils and teachers (43 per room), the air supplied through warm-air ducts was 44.42 cubic feet per person, and the amount exhausted through the vent ducts was 84 cubic feet per person, per minute. In this case the outlets had been opened wide, to see what they could do; but no uncomfortable drafts could be perceived, and in no case did the temperature vary more than two degrees, and in some rooms not over one-half a degree difference could be seen in the thermometers on top of the four corner desks.

South Grammar School (Addition), Waltham.

Brick two-story, four-room addition to old building, heated by indirect steam, with direct for night use; separate brick exhaust flues for each room, heated by steam pipes. Weather, cloudy; outside temperature, 34° ; barometer, 30.8; humidity, 62; very light north-westerly breeze. Less than one pound of steam on boiler. Allowing for 196 pupils and teachers (49 per room), the air supplied through warm-air ducts was 49 cubic feet per person, and the air exhausted through the vent ducts was 67.57 cubic feet per person, per minute. The temperature in the rooms did not vary over two degrees, and in some rooms not over one-half a degree, at the four corner desks. No uncomfortable drafts were perceptible. In one room, with 47 persons present, 55.93 cubic

feet of air coming in at inlet and 62.22 cubic feet going out at outlet per person per minute, and no recess during the session, a test for carbonic acid, made at 11.45 A.M., in the centre of the room at the breathing line, gave only 5.5 parts in 10,000 of air, the outside air containing 4 parts in 10,000. In one room in the old part of the building which had not been provided with modern ventilation the air supplied through inlets was 9.14 cubic feet and amount removed through outlet was 19.4 cubic feet per person, per minute.

High School, Wellesley.

A new brick, two-story building, containing one large assembly and eight smaller rooms, not all occupied at time of inspection; heated by indirect steam, with steam pipes in outlet ducts. Weather, fair; outside temperature, 30°; barometer, 30; humidity, 70; moderate south-west breeze. Six pounds of steam on boiler. The air supplied to the building through the warm-air inlets (exclusive of what came through two 30 by 30 inch foot warmers in corridor) was 18,832 cubic feet per minute; the amount taken out through the outlet ducts was 23,181 cubic feet per minute. In the large assembly room, which had 72 seats, the air supplied through the inlet ducts was 104 cubic feet per minute and the exhaust through the vent ducts 120 cubic feet per seat per minute. No uncomfortable drafts could be perceived, and the temperature did not vary over one degree on top of the four corner desks. This building being intended for an increasing number of pupils, ample provision had been made for a good supply of air when the school was full.

Coughlin School, Fall River.

A new brick, two-story, eight-room building, heated by indirect steam, with direct for night use; separate brick exhaust ducts with steam pipes in them for each room. Weather, fair; outside temperature, 27°; barometer, 30.22; humidity, 61; light north-west breeze. Rooms seated for 49 pupils. Allowing 50 persons (including teacher) for each room, the air supplied through inlet ducts was 42.98 cubic feet per person, and the amount exhausted through outlets was 59.71 per person, per minute. Variation of temperature not over three degrees and in some rooms not over one degree on top of the four corner desks. No uncomfortable drafts could be perceived. In one room with 49 seats, the air supplied through the inlet ducts being 49.69 cubic feet per minute and the exhaust through the vent ducts 50.63 cubic feet per minute per seat, and 35 persons present, a test for carbonic acid, made near the centre of the room at the breathing line at 11.20 A.M., there having been no recess, gave 4.8 parts in 10,000 of air.

*Plans Received and Changes Recommended.*DISTRICTS NOS. 2, 3 AND 6. JOSEPH A. MOORE, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Howard & Bullough Company's building.	Attleborough, .	Additional egress.
Carpenter Street school, . . .	Attleborough, .	Rail basement stairs.
Two-room school,	Attleborough, .	Change ventilation.
School-house,	Bellingham, . .	Change ventilation.
St. Branden's Church, . . .	North Bellingham,	Remove wooden ducts.
Parish House, All Saints Church, .	Brookline, . .	- -
School-house,	Cottage City, .	Change in ventilation.
Vineyard Company's hall, . .	Cottage City, .	Additional egress.
Eldridge library,	Chatham, . . .	Guarantee of ventilation.
Grange hall,	North Easton, .	Better egress; ventilation.
Ames Memorial school,	North Easton, .	Additional egress.
Church of Ascension,	Fall River, . .	Additional egress.
Saints Peter and Paul Church, .	Fall River, . .	Guarantee of ventilation.
Saint Ann's Church,	Fall River, . .	Change ventilation.
Saul Jansen's tenement-house, .	Fall River, . .	Fire-stops.
Saint Ann's parsonage,	Fall River, . .	Additional egress.
Bogle Street Church,	Fall River, . .	- -
Quequechan Club house,	Fall River, . .	Fire-stops.
Y. M. I. A., C. F. A. and B. Society building.	Fall River, . .	Change ventilation.
Polo rink,	Fall River, . .	Additional egress; strengthen building.
Naturalization Club building, .	Fall River, . .	Ventilation.
Franco-American Society's building,	Fall River, . .	Additional egress; ventilation.
Lawrence high school,	Falmouth, . .	Change ventilation.
First Congregational Church, . .	Franklin, . .	- -
School-house,	Holliston, . .	Ventilation not approved.
School-house, Reedville district, .	Hyde Park, . .	- -
School-house, Fairmount district, .	Hyde Park, . .	- -
School-house, Hilton Street, . .	Hyde Park, . .	- -
Holden building,	Hudson, . . .	Change fire-escape; means to extinguish fire.
Lewis building,	Hudson, . . .	Fire-stops; ventilation.
Fire station,	Hudson, . . .	- -
Savings bank building,	Hudson, . . .	Ventilation.
Training school,	Hyannis, . .	- -
State normal school,	Hyannis, . .	Ventilation disapproved.
State normal school dormitory, .	Hyannis, . .	Ventilation disapproved.
Saturday Night Club building, .	Hyannis, . .	Better egress.

Plans Received, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Medfield Insane Asylum, 6 buildings "E," "F" and "L."	Medfield, . . .	- -
High school,	Milton,	Ventilation to be guaranteed.
Walnut Hill school addition, . . .	Natick,	Change ventilation.
Rice school addition,	Newton Centre, .	Ventilation to be guaranteed.
Adams school,	Newton,	Change in ventilation.
Pierce school,	West Newton, . .	Ventilation disapproved.
Women's Relief Corps building, . .	North Attlebor- ough.	Fire-escape; doors changed; fire- resisting curtain on stage.
Phillips Avenue school,	New Bedford, . .	Ventilation to be guaranteed.
Clark Street school,	New Bedford, . .	Ventilation to be guaranteed.
Morse building,	Sharon,	Additional egress; fire-stops; ventilation.
County Street school,	Taunton,	Fire-stops; change in ventilation.
Berkley Street school,	Taunton,	Fire-stops; ventilation to be guar- anteed.
Sharkey & Co.'s building,	Taunton,	- -
Scuddings school,	Taunton,	Ventilation to be guaranteed.
Almshouse,	Upton,	Ventilation to be guaranteed.
Church of Epiphany,	Walpole,	- -
Waltham Canoe Club,	Waltham,	Change in ventilation.
Hall's building,	Watertown, . . .	Better egress.
Town hall and school,	Wrentham,	Change in ventilation.
High school,	Weston,	Ventilation not approved.

*Report of Buildings Inspected.*CLASS NO. 1, DISTRICTS NOS. 2, 3 AND 6. JOSEPH A. MOORE, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Attleborough.		
Y. M. C. A. building,	No orders,	-
Carpenter Street school,	Rail basement stairs,	Complied.
Armory, Co. I, Fifth Regiment M. V. M.	Special report to adjutant-general, .	-
Bellingham.		
Saint Branden's Church,	Remove wooden air ducts,	Complied.
Boston.		
Tappan school,	No orders; inspected ventilation, .	-
Braintree.		
Union grammar school,	Inspected ventilation,	-
Pond Street school,	Inspected ventilation,	-
Jonas Perkins school,	Inspected ventilation,	-
Brookline.		
Manual training school,	Inspected ventilation,	-

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Canton.		
Elliott school,	Inspected ventilation,	-
Chatham.		
Y. M. C. A. hall,	Fire-escape; doors open out,	Complied.
Dartmouth.		
Bliss Corner school,	Inspected ventilation,	-
Dedham.		
Quincy school,	Inspected ventilation,	-
Memorial hall,	Special report,	-
Oakdale hall,	Fire-escape; doors open out; means of extinguishing fire.	Complied.
Fairhaven.		
Almshouse,	Guard steam pipes,	Complied.
Foxborough.		
Union building (I. O. G. T. hall),	Means of extinguishing fire,	Complied.
Masonic hall,	Fire-escape,	Complied.
Foxborough Cycle and Athletic Club,	Fire-escape; remove oil from under stairs.	Complied.
Crocker building (I. O. O. F. hall),	Fire-escape; remove combustible material.	Complied.
Knights of Honor hall,	Keep exits free from obstructions,	Complied.
Bethany Congregational Church,	No orders,	-
Framingham.		
May Hall, State normal school,	Inspected ventilation; special report,	-
Arlington Street school,	Inspected sanitariums,	-
Pearl Street school,	Inspected sanitariums,	-
Fall River.		
Coughlin school,	Inspected ventilation,	-
Hopedale.		
Grammar school,	Inspected ventilation,	-
Hyde Park.		
Plummer block,	Fire-escape,	Complied.
Hudson.		
Green Street school,	Remove wooden air ducts,	Complied.
School Street school,	Inspected ventilation,	-
Marlborough.		
G. A. R. building,	Rear door to open out,	Complied.
Medway.		
Almshouse,	Special report,	-
Milton.		
East Milton school,	Inspected ventilation,	-
New Bedford.		
Madison Street school,	Inspected ventilation,	-
Acushnet Avenue school,	Inspected ventilation,	-
Cedar Street school,	Better ventilation,	-
Salvation Army hall,	Better egress,	Complied.
Patnaud building (French Zouaves hall),	Better egress; change door; remove oil.	Complied.
Kempton building (C. I. O. O. F. hall),	Fire escape; means of extinguishing fire.	Complied.
Meaney building,	Better egress from third story; means of extinguishing fire.	Complied.
Newton.		
Hyde school,	Inspected ventilation,	-
Newton Theological Institute,	Fire-escape; better ventilation,	Complied.

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
North Attleborough.		
Women's Relief Corps building (G. A. R. hall).	Fire-escape; doors open out; fire-resisting curtain on stage.	In process.
Wamsutta Opera House, . . .	Doors open out; put asbestos curtain in order.	Complied.
Knights of Pythias hall, . . .	Fire-escape; doors open out; means of extinguishing fire.	Complied.
Quincy.		
High school,	Inspected ventilation,	-
Randolph.		
Catholic Lyceum building, . . .	Doors open out,	Complied.
Taunton.		
North Pleasant Street school, . .	Inspected ventilation,	-
Armory, Co. F, First Regiment M. V. M.	Special report to adjutant general, .	-
Staples block,	Fire-escape; doors open out; means to extinguish fire.	Complied.
Summer Street school,	Inspected ventilation,	-
Watertown.		
Barnard block,	Fire-escape; means to extinguish fire,	Complied.
Central block,	Fire-escape; doors changed; means to extinguish fire.	Use of hall discontinued.
Waltham.		
South grammar school,	Inspected ventilation,	-
Wellesley.		
High school,	Inspected ventilation,	-
Weymouth.		
Hunt school,	Inspected ventilation,	-
I. O. O. F. building,	Fire-escape; asbestos curtain, . . .	In process.

REPORT OF INSPECTOR BROWN.

Testing the ventilation of new school-houses and those in which the ventilation had been improved, together with the inspection and examination of other school buildings at the request of committees, has been quite an item of my year's work, and occupied most of my time during the cold weather.

The public buildings, hotels and manufacturing establishments throughout my district have been inspected in regard to the several laws applying to each, of which I have the enforcement, and the ways of egress in case of fire carefully looked after; but in comparatively few instances was it deemed necessary to issue any written order to insure the safety and well-being of the occupants.

The number of plans of new buildings submitted has been double those of the previous year, all of which had to be carefully gone over, and in many cases the building visited while in process of construction to explain some requirement to the builder; but

when properly understood all recommendations as to the ways of egress, fire-stops and other precautionary measures have been willingly adopted.

Numerous consultations with committees and others have been held, and in the matter of school buildings in particular it has been my aim to assist in every possible manner those having them in charge.

In conclusion, I am pleased to report that everything is moving along harmoniously, and I look back with satisfaction on the results of a busy year.

Report of Buildings Inspected.

CLASS NO. 1, DISTRICT NO. 4. EDWIN Y. BROWN, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Brockton.		
Hotel Keswick,	Electric gong; notices of ways of egress posted in lodging-rooms.	Complied.
Washburn's block,	Fire-escape; means to extinguish fire,	Complied.
Bay State block,	Separate front and rear stairways by partitions and fly doors.	Complied.
Stacy, Adams & Co.'s shoe factory,	Remove dangerous fire-escape, . .	Complied.
R. R. Littlefield's shoe factory, .	Fire-escape from attic,	Complied.
P. B. Keith's shoe factory, . . .	Rail roof of boiler house where door of factory opens to it; repair fire-escapes.	Complied.
O. O. Patten's factory building, .	Fire-escape,	Complied.
Bouvé, Crawford & Co.'s shoe factory, No 1.	Rail fire-escape,	Complied.
Bouvé, Crawford & Co.'s shoe factory, No. 2.	Remove dangerous fire-escape, and if attic is occupied, replace it.	Complied.
M. A. Packard's shoe factory, . .	Rebuild fire-escapes,	Complied.
C. A. Eaton's shoe factory, . . .	Keep stairway unobstructed; repair fire-escape.	Complied.
T. D. Barry's shoe factory, . . .	Repair fire-escape,	Complied.
M. P. Clough's shoe factory, . . .	Fire-escape,	Complied.
Geo. E. Keith's manufacturing building	Fire-escape,	Complied.
Herrod's hall,	Fire-escape,	-
Chelsea.		
Lowe's hall,	Fire-escape,	Complied.
Boston Rubber Company's factory,	Fire-escape,	Complied.
Cohasset.		
Norfolk House,	Rope fire-escapes in sleeping-rooms,	-
Rockland.		
Union Temperance hall,	Rail window in stairway,	-
Whitman.		
Woodard, Faulkner & Co.,	Protect steam pipes,	-

*Plans Approved and Changes Recommended.*DISTRICT NO. 4. EDWIN Y. BROWN, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Addition to Crossett's shoe factory,	Abington, . .	- -
State normal school extension, .	Bridgewater, .	- -
Dormitory building of State normal school.	Bridgewater, .	- -
Perkins school-house, . . .	Brockton, . .	- -
Harvard school-house, . . .	Brockton, . .	- -
Whitman school-house, . . .	Brockton, . .	- -
Brockton Industrial Company's factory.	Brockton, . .	Additional stairway.
Hannah's apartment house, . .	Brockton, . .	Additional stairway.
Carson's block,	Brockton, . .	Fire-stops; additional doorways.
Franklin M. E. Church, . . .	Brockton, . .	Fire-stops.
Puffer's building,	Brockton, . .	Fire-stops.
Addition to Douglas's shoe factory,	Brockton, . .	- -
O. E. Miller's factory,	Brockton, . .	- -
Hibernian hall,	Brockton, . .	Additional way of egress.
Addition to South Congregational Church.	Brockton, . .	Fire-stops.
Chas. S. Pierce's factory building, .	Brockton, . .	Additional ways of egress.
Herrod's hall,	Brockton, . .	Additional way of egress.
Lawrence's apartment block, . .	Chelsea, . .	Fire-stops.
Bryden's apartment block, . .	Chelsea, . .	Better way of egress.
Cook's apartment block,	Chelsea, . .	Fire-stops.
Mrs. Williams's apartment block, .	Chelsea, . .	Fire-stops; metal lathing.
Mrs. L. M. Childs's apartment block,	Chelsea, . .	Fire-stops.
Boston Rubber Company's factory,	Chelsea, . .	Additional ways of egress.
Sagamore House,*	Hull,	Better way of egress; fire-stops.
Arlington House,	Hull,	- -
Carruthers's Hotel,	Hull,	- -
Savings bank building,	Middleborough, .	Fire-escape at rear.
Primary school-house,	Milford, . .	Better ventilation.
Strathmore Pavilion,†	Revere, . .	Additional stairway.
Rockland Company's shoe factory, .	Rockland, . .	- -
Music hall,	Scituate, . .	Additional way of egress; fire-stops.
Pine Tree Inn,	Wareham, . .	Better way of egress.
Grange hall,	West Bridgewater,	Outside stairway.
Crosby's block,	Winthrop, . .	Fire-stops.

* Burned before completion, and plans withdrawn.

† Land taken by the State; not erected.

REPORT OF INSPECTOR DYSON.

SIR:—I have the honor to report to you the work done by me in the inspection of public buildings since my last annual report. Such as could be shown in that way is submitted in a tabulated form, which, however, is but a small part of the work required of an inspector, more especially in our large public buildings, where the work necessitates many changes to meet the requirements of your department in the matter of ventilation.

I have issued but few orders for better ventilation and sanitation in this district, for the reason that committees of the several cities and towns can be depended upon to enforce the laws enacted for the public good and the improvement of the condition of the school buildings in their charge. Again, it would be practically impossible to remodel all of the old buildings in one season. Worcester, Fitchburg, Athol, Gardner, Winchendon, Westborough, Webster, Leicester, Clinton, Leominster, Warren, Northborough, Northbridge and Barre have either built new buildings or remodelled their old ones, and provided all of them so changed with modern systems of ventilation; and the consultations with architects, committees and contractors take up a great deal of the time of the inspector, none of which shows in the tabulated report.

The State Normal School at Worcester.

One of the oldest buildings of its kind in the State, erected before the matter of proper ventilation was a subject of legislative enactments; at the present time is a fair sample of what can be done with an old building in the way of providing the same with a modern system of heating, ventilating and sanitation.

At an inspection in the early part of the present year I found the building in a bad state of repair, and practically relying upon the open windows for fresh air. The fresh-air ducts provided for use in the several rooms were constructed of boards, with many openings, drawing the foul air and gases from the basement. After careful examination a system of ventilation was recommended by me to the State Board of Education, and during the summer vacation the details and work of a modern system of heating and ventilation were installed by Messrs. O. S. Kendall & Co., heating and ventilation experts of the city of Worcester. From a recent test, it fully meets the requirements of this department and the laws of the Commonwealth.

The building was formerly heated mostly by direct steam, some of the rooms partially indirect, from two horizontal tubular

boilers located in the basement. An additional boiler was put in to assist the original two, with a view to heating the new gymnasium from the same plant; but the system is so connected that any one or all of the three boilers can be used at the same time, if so desired. Four large stacks of brick and four of galvanized iron were put in, located with a view of not disarranging the internal construction of the building; at the base of each stack is a brick chamber containing the indirect heating surface for the several rooms, each room having a separate duct provided with a mixing damper, controlled by the teacher, who can have fresh air brought into the room at any temperature desired, the openings being placed about eight feet from the floor. The ventilation is by the gravity system, each foul-air duct being provided with a steam coil, also a gas burner, for use at times when steam is not required for heating purposes during the early summer and fall. The assembly hall, which is about 64 feet square, cubic contents 85,380 feet, with a seating capacity for 197 pupils, has four fresh-air ducts and six direct radiators for use in extreme cold weather, also has four foul-air ducts; and at a recent test there was being removed 46.36 cubic feet of vitiated air per seat per minute. This remarkable showing was being made without any stationary engine or complicated mass of valves, deflectors, diffusers, gossamer air valves or fan; and in my opinion it will compare with any mechanical system now in use, besides being in active operation at all times.

I am still convinced that this system is the best and cheapest that has yet been found for use in public buildings and school-houses, unless the mechanical system is used, with a blower and exhaust fan.

Plans Approved and Changes Recommended.

DISTRICT No. 5. JOSEPH M. DYSON, *Inspector.*

BUILDING.	Location.	Changes Recommended.
H. S. Prentiss's block, . . .	Worcester, . . .	- -
G. A. Gane Shirt Company factory,	Leominster, . . .	Additional stairs.
Allen estate factory,	Worcester, . . .	Additional stairs; fire-escape.
W. A. Barr's factory,	Spencer, . . .	Additional stairs.
Addition Presbyterian Church, .	Whitinsville, . .	None.
C. H. Prentiss's tenement block, .	Worcester, . . .	None.
Iver Johnson's tenement block, .	Fitchburg, . . .	None.
G. M. Kendall's block,	Leominster, . . .	Additional stairs; fire-escape.
State normal school building, . .	Fitchburg, . . .	None.

Plans Approved, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
State normal school, ventilation, .	Fitchburg, . .	Not approved.
Hospital Sisters of Providence, .	Worcester, . .	Additional egress; fire-stops.
T. Hamilton's tenement and stores,	Worcester, . .	None.
Swedish Lutheran Church, . .	Fitchburg, . .	Change location of stairs.
Parochial school,	Fitchburg, . .	Additional egress from third floor.
Parochial school,	Fitchburg, . .	None.
Henry McGrath's office building, .	Clinton, . .	Doors to open out.
A. Israel's factory,	Worcester, . .	None.
Heywood Bros.' factory,	Gardner, . .	None.
Home for Aged Women,	Worcester, . .	Fire-stops.
Worcester Corset Company's factory,	Worcester, . .	None.
Grammar school, Linwood, . . .	Northbridge, .	Suggestion as to ventilation.
People's Chapel,	Worcester, . .	None.
Addition to East Street school, .	Warren, . .	Location of stairs; ventilation.
Cottage Hospital,	Baldwinsville, .	Additional egress; ventilation.
N. E. Telephone and Telegraph Company building.	Worcester, . .	Additional stairs.
Wachusett shirt factory,	Leominster, . .	Fire-escape.
King's Hotel,	Spencer, . .	Additional egress.
Schofield's shop,	Worcester, . .	Additional stairs.
Safety Fund Bank block,	Fitchburg, . .	Additional stairs.
French Catholic Church,	Webster, . .	Widen stairs from galleries.
Addition to Linwood mills, . . .	Northbridge, .	Fire-escape.
Addition to P. Whittin Rockdale mills.	Northbridge, .	Fire-escape.
A. F. Whittemore's block,	Worcester, . .	None.
B. James's block,	Worcester, . .	None.
M. Trulson's hotel,	Worcester, . .	Additional stairs; doors to open out.
Union Congregational Church, . .	Worcester, . .	None.
State Mutual Life Assurance, . . .	Worcester, . .	None.
State normal school,	Worcester, . .	Ventilation system laid out.
State normal school, gymnasium, .	Worcester, . .	None.
C. Gredig's block,	Uxbridge, . .	Doors to open out.
E. M. Goldthwait's block,	Uxbridge, . .	Rear stairs; doors to open out.
Pequog House, addition,	Athol,	Additional stairs.

*Report of Buildings Inspected.*CLASS No. 1, DISTRICT No. 5. JOSEPH M. DYSON, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Athol.		
Lake Park school,	Changes of foul-air duct,	Complied.
Southborough.		
Garbarino building,	Old shoe factory being changed to lodging-house and tenements; recommended that no more be put in.	So far complied.
Southbridge.		
Ammidown block,	Fire-escape; rear stairs clear of obstructions.	Partially complied.
Worcester.		
Oxford Street school,	Additional ventilation for sanitarries,	Complied.
Worcester Insane Hospital,	Additional egress; fire stops,	Complied.
Hubely's factory,	Fire escape; doors to open out,	Complied.
Kinnicutt's block,	Additional egress; hall not to be used until provided.	Not complied.
First National Bank building,	Additional egress from upper floor,	Not complied.
State normal school,	Better means of ventilation and sanitation.	Complied.
Day's block,	Broaden stairs,	Complied.
Shannon's block,	Doors to open out,	Complied.
Millbury Street school,	Better ventilation,	—*
Gage Street school,	Better ventilation,	—*
Chandler Street school,	Better ventilation,	—*
Westborough.		
Grove Street grammar school,	Better ventilation,	Complied.
Grove Street primary school,	Better ventilation,	Complied.
Phillips Street school,	Better ventilation,	Complied.
Warren.		
Warren woollen mill,	Fire-escape,	Complied.
East Street school (old),	Better ventilation and sanitarries,	Being completed.
Leominster.		
Wachusett House,	Fire-escape to upper floor,	Complied.
Leominster town hall,	Ventilation; protection of stage lights,	Complied.
Wachusett Shirt Company,	Outside fire-escape,	Complied.
Leicester.		
Centre brick school,	Better ventilation and sanitarries,	Complied.
Fitchburg.		
W. A. Garno's factory,	Additional egress from upper floor,	Complied.
Leonard box factory,	Stairs guarded,	Complied.
Fitchburg Hotel,	Rooms to be supplied with rope escapes.	Complied.
Star Worsted Company,	Additional stairs from upper floor,	Complied.

* Most completed.

REPORT OF INSPECTOR FOULDS.

SIR:—In compliance with your request, I herewith submit my report for the year now closing, with tabulated statement of inspections performed by me, — one for work done in District No. 5 up to Jan. 7, 1895, the other for District No. 6, to which you transferred me at that time.

My inspection in the fifth district necessitated the issuing of quite a number of orders, which, with the exception of a very few,

were promptly complied with. That portion of my time given to the inspection of hotels and tenement-houses in District No. 6 has resulted in the issuing of many orders for the better protection of life in case of fire, and they have been in most cases promptly complied with. The hotels in this district, with the exception of the summer hotels, were in good condition, so far as being provided with outside fire-escapes; but in the most of them I found it necessary to issue orders for ropes or better appliances to be placed in lodging-rooms as a means of escape; also for hooks to rope fire-escapes to be changed from below the window-sills to five feet from the floor, and means of extinguishing fire to be provided. This district is a large manufacturing one, and in it there is a large number of three-story tenement-houses in course of construction, which require a great deal of the inspector's time to see that they have proper means of egress, also that fire-stops are placed in the same according to general specifications, to prevent the spread of fire, as many of the contractors try to cover their work so as to save expense, and in many cases persons draw the plan who do not know the law relating to the means of egress and fire-stops. In relation to lodging-houses I would say that there are a great many of them in this district with but seven or eight rooms above the second floor, and they can accommodate as many as ten or twelve persons, but claim to have but seven or eight lodgers above the second floor; many of these houses have but one stairway to the third floor. Under the law, which requires that there shall be ten rooms or ten persons above the second floor, the inspectors can issue no orders to this class of houses.

In conclusion, I would say that, although I have had some difficulty in obtaining compliance from building contractors, I have succeeded without a single case of prosecution. Most of the orders given for better egress, fire protection and escapes to owners and managers of hotels have been cheerfully and willingly complied with when shown the necessity thereof.

Plans Received and Changes Recommended.

DISTRICT No. 6. JOHN E. FOULDS, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Leclair building,	Fall River, . . .	No change.
Holden & Hindle,	Fall River, . . .	Additional fire-stops; means to extinguish fire.
Beauregard building, . . .	Fall River, . . .	Connect balconies; means to extinguish fire.

Plans Received, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Charbonneau building,	Fall River,	Balconies to be extended and connected; cut doors and put in fire stops.
Rousseau building,	Fall River,	No change.
Dube building,	Fall River,	No change.
Acton building,	Fall River,	Fire stops.
Lavoie building,	Fall River,	Fire-stops; cut doors.
La Liberte block,	Fall River,	Fire-stops.
Hodgkinson building,	Fall River,	No change.
Duggan building,	Fall River,	Fire-stops.
Cornell building,	Fall River,	Fire-stops.
Charrette block,	Fall River,	No change.
Smith block,	Fall River,	Fire-stops; cut doors.
King block,	Fall River,	No change.
Antie building,	Fall River,	No change.
Lavoie block,	Fall River,	Fire-stops.
Macqueen block,	Fall River,	Fire-stops.
Picotte building,	Fall River,	Fire-stops.
McMahon block,	Fall River,	Outside fire-escape and fire stops.
Reynolds building,	Fall River,	Fire-stops.
Parker mills,	Fall River,	No change.
F. R. Iron Works Company,	Fall River,	No change.
Laurel Lake mills,	Fall River,	No change.
Considine building,	New Bedford,	Fire-stops; smoke doors; means of extinguishing fire.
Hervy's block,	New Bedford,	Outside fire-escape.
McGarigle building,	New Bedford,	Fire-stops.
Cornell building,	New Bedford,	Fire-stops.
Jane houses,	New Bedford,	Additional means of egress.
Driscoll building,	New Bedford,	Additional egress; fire-stops.
Tremblay building,	New Bedford,	Fire-stops.

*Report of Buildings Inspected.*CLASS NO. 1, DISTRICT NO. 6. JOHN E. FOULDS, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Attleborough.		
Park Hotel,	Knotted ropes in lodging-rooms; means of extinguishing fire.	Complied.
Briggs' House,	None,	-
Bates' building,	None,	-

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Attleborough — Con.		
Chilson House,	—	—
Dean estate,	Extend fire escapes; provide means of extinguishing fire.	Complied.
Lyceum hall,	Cut doors and construct outside stairs.	Complied.
Elliott House,	Knotted ropes in lodging-rooms; means of extinguishing fire.	Complied.
Pierce building,	None,	—
Sanford building,	Better means of egress,	In process.
Barnstable.		
Globe Hotel,	None,	—
Iyanough House,	None,	—
Hallett House,	None,	—
Port View,	Better means of egress,	Complied.
Santuit House and annex,	Knotted ropes in lodging-rooms,	Complied.
Hotel Palmer,	None,	—
Hotel Pines,	Knotted ropes in lodging-rooms; connect balconies by stairs.	Complied.
Cotocheset House,	None,	—
Cottage City.		
Prospect House,	Knotted ropes in lodging rooms,	Not complied.
Island House,	Knotted ropes in lodging-rooms,	Complied.
Naumkeg House,	Knotted ropes in lodging-rooms,	Complied.
Wesley House,	Additional means of egress; knotted ropes in lodging-rooms.	Complied.
Wesley House annex,	Knotted ropes in lodging rooms,	Complied.
Frasier House,	Knotted ropes in lodging-rooms,	Complied.
Central House,	None,	—
Oakwood House,	None,	—
Pawnee House,	Repair and replace rope fire-escapes,	Complied.
Metropolitan Hotel,	None,	—
Cottage City House,	None,	—
Talcott House,	Means of extinguishing fire,	House closed.
Chatham.		
Dill House,	Additional means of egress; means to extinguish fire; gongs and knotted ropes.	Complied.
Dennis.		
Nobsacussett House,	Knotted ropes in lodging-rooms,	Complied.
Edgartown.		
Sea View House,	None,	—
Harbor View,	None,	—
Hall House,	None,	—
Falmouth.		
Hotel Falmouth,	Additional egress; means of extinguishing fire.	In process.
Fairhaven.		
Bryden House,	None,	—
Fall River.		
Beauregard building,	Additional means of egress; means of extinguishing fire.	Complied.
Leclair House,	None,	—
Moffit House,	Remove obstructions to stairs,	Complied.
Richardson House,	Replace ropes in lodging-rooms,	Complied.
Lyman building,	None,	—
Narragansett building,	None,	—
Griffith lodging-house,	Remove obstructions to stairs,	Complied.
Claffin House,	None,	—
Dube building,	None,	—
Bedard building,	None,	—
Marsden building,	Outside fire-escape; cut doorways,	In process.
Marchand building,	Outside fire-escape; cut doorways,	Complied.
Allwood building,	None,	—
Break of Day House,	Better means of egress,	Complied.

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Fall River — Con.		
Gaiety and Bijou Theatre,	Protect steam pipes,	Complied.
Charbouneau building,	Better means of egress; cut doorways; fire-stops.	Complied.
Jansen building,	Extend fire-escapes,	Complied.
Beauchemin building,	Better means of egress,	Complied.
Carrollton hall,	Better means of egress by extra stairs and smoke doors.	Complied.
Acton building,	Fire stops,	Complied.
Creamer building, No. 1,	Repair fire-escapes,	Complied.
Creamer building, No. 2,	Repair fire-escapes,	Complied.
Cox building,	Better means of egress,	Complied.
Lavoie building,	Better means of egress by cutting doors; fire-stops.	Complied.
La Liberte building,	Fire-stops; means to extinguish fire,	Complied.
Mechanics' mills,	Doors to open out,	Complied.
Long building,	Fire-stops; means of extinguishing fire.	Complied.
Holden & Hindle building,	Fire-stops; means to extinguish fire,	Complied.
Mellen House,	Lengthen fire-escape ropes; repair fire-escape; windows in light shaft to be opened out.	Complied.
Wilbur House,	Knotted ropes in lodging-rooms, .	Complied.
Narragansett House,	Knotted ropes in lodging-rooms, .	Complied.
Evans House,	Change hooks to five feet from floor; outside door to open out; means to extinguish fire.	Complied.
St. James' Hotel,	None,	-
Puritan Hotel,	Ropes and means to extinguish fire, .	House closed.
City Hotel,	Change hooks to five feet from floor; cut doorways.	Complied.
Sexton building,	None,	-
Union Belt Company,	None,	-
American Supply Company,	Remove obstructions to fire-escape, .	Complied.
Duggan building,	Fire-stops,	Complied.
Durant building,	Outside fire-escapes,	Complied.
King building,	Better means of egress,	Complied.
Croisetier's building,	Better means of egress,	Complied.
Boulle building, No. 1,	Outside fire-escapes,	Complied.
Boulle building, No. 2,	Outside fire-escapes,	Complied.
Desbien's building, No. 1,	Better means of egress,	Complied.
Desbien's building, No. 2,	Better means of egress,	Complied.
Cornell building,	Fire-stops,	Complied.
Chourinard building,	Better means of egress,	Complied.
Lemontayne building,	Cut doors,	Complied.
Pelletier building,	Better means of egress,	Complied.
Gumache building,	Better means of egress,	Complied.
Lavoie building,	Fire-stops,	Complied.
McGraw building,	Fire-escapes,	In process.
Picolte building, No. 1,	Fire-stops,	Compl'd.
McMahon building,	Fire-escape; fire-stops,	Complied.
Reynolds' building,	Fire stops,	Complied.
Marchand building,	Fire-escape,	Complied.
Picolte building, No. 2,	None,	-
Lepaye building,	None,	-
Doucet building,	None,	-
Seaconnet mill,	Unlock outside doors,	Complied.
Mansfield.		
Mansfield House,	None,	-
American House,	None,	-
Central House,	Knotted ropes in lodging-rooms, .	Complied.
Nantucket.		
Ocean House,	Ropes in lodging-rooms,	Complied.
Springfield House,	None,	-
Springfield House annex, No. 1,	None,	-
Springfield House annex, No. 2,	None,	-
Point Breeze,	None,	-
Nantucket House,	Connect fire-escape balconies; knotted ropes in lodging-rooms.	Complied.
Sherburne House,	None,	-
Bay View House,	Knotted ropes in lodging-rooms, .	Complied.

Report of Buildings Inspected—Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Nantucket—Con.		
Veranda House,	None,	—
Sea Cliff Inn,	None,	—
Atlantic House,	None,	—
Ocean View annex,	Rail fire-escape; means to extinguish fire.	Complied.
New Bedford.		
Mansion House,	Change hooks; replace ropes where missing.	Complied.
Manhattan House,	None,	—
Parker House,	Knotted ropes in lodging-rooms; means to extinguish fire.	Complied.
Roberts' block,	None,	—
Therrien block,	None,	—
Dawson's block,	None,	—
Ashley block,	None,	—
Slater's block,	None,	—
Sis-on House,	None,	—
Salvation Army barracks,	None,	—
Considine building,	Means to extinguish fire; fire-stops; smoke doors.	Complied.
Poissoin block,	None,	—
Wamsutta mill, No. 7,	Outside fire-escape,	Complied.
McGarigle building,	Fire-stops,	Complied.
Normandine block,	Remove obstructions; put glass panels in doors.	Complied.
Forteaux building,	Remove obstructions; put glass panels in doors.	Complied.
Hervey block,	Outside fire-escapes,	Complied.
Winthrop House,	Knotted ropes; means to extinguish fire.	Complied.
Whitcomb House,	Knotted ropes in lodging-rooms,	Complied.
Kempton estate,	None,	—
Belmont House,	Knotted ropes; means to extinguish fire.	Complied.
Parker's lodging house,	Ropes in lodging-rooms,	Complied.
Connell building,	Fire-stops,	In process.
Javre House,	Better means of egress,	Complied.
Rose House,	Outside fire-escape,	Complied.
Driscoll block,	None,	—
Bancroft House,	Means of extinguishing fire,	Complied.
Driscoll building,	Better means of egress; fire-stops,	Complied.
Tremblay building,	Fire-stops,	Complied.
North Attleborough.		
International House,	None,	—
Wamsutta House,	None,	—
Wamsutta Opera House,	None,	—
Orleans.		
Shattuck House,	None,	—
Provincetown.		
Central House,	None,	—
Atlantic House,	None,	—
Gifford House,	Change hooks to five feet from floor,	Complied.
Pilgrim House,	None,	—
Sandwich.		
Central House,	None,	—
Taunton.		
City Hotel,	None,	—
Central House,	None,	—
Taunton House,	Knotted ropes in lodging-rooms,	Complied.
Poole Silver Company,	Better means of egress,	Complied.
Bristol Hotel,	Ropes in lodging-rooms,	Complied.
Eagle mills,	Protect steam pipes; rerail stairs,	Complied.
Windsor House,	Knotted ropes in lodging-rooms,	Complied.
Columbia House,	Knotted ropes in lodging-rooms; means to extinguish fire.	Complied.

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Taunton — Con.		
Gallagher building,	None,	—
Weir Stove Company,	None,	—
Barber House,	Ropes in lodging-rooms; means to extinguish fire.	Complied.
Massasoit House,	None,	—
Tisbury.		
Mansion House,	Knotted ropes in lodging-rooms, .	Complied.
Toshmoo House,	None,	—
Johnston House,	Knotted ropes in lodging-rooms; con- nect balconies.	Complied.
Cedras House,	None,	—
Wellfleet.		
Holbrook House,	None,	—
Westport.		
Howland House,	None,	—
Harbor House,	Knotted ropes in lodging-rooms; means to extinguish fire.	Complied.
Hotel Westport,	None,	—

REPORT OF INSPECTOR BUXTON.

SIR: — I have the honor to submit the following report of work accomplished during the past year in District No. 7, which comprises Hampden and Hampshire counties. In reviewing the year I find it impossible to give an adequate conception of all that has really been done, as much of my duty is of an advisory character.

Section 25, chapter 481 of the Acts of 1894, which requires a plan of the buildings of a certain class to be deposited with the inspector before erection, has been fairly well complied with. The principal difficulty encountered is with persons who attempt to build without plans, or at best only a rough sketch or outline, while some are still found erecting buildings in ignorance of the law requiring them to forward plans for the inspector's approval. There is, however, a marked advance in a knowledge of the law, and a more general and hearty acknowledgment of the reasonableness of the requirements. During the year I have received fifty copies of plans of buildings, many of them large structures; and much time has been spent in visiting these buildings during the process of erection, for, unless the seemingly trivial details in constructing fire and smoke stops are rightly carried out, their utility as a safeguard against the spread of fire would be destroyed, and the primary object of the requirement in lessening the danger of loss of life in case of fire would be lost.

Sections 40 and 41 of chapter 508, Acts of 1894, which require school-houses and public buildings to be kept in a cleanly state

and properly ventilated, have brought an unusual amount of work this year, as several school-houses have been or are being constructed in this district. Two of these are located in the city of Springfield. One is a four-room building, heated by steam, indirect radiation, with a gravity system of ventilation; the other is a two-story brick structure, containing twelve class rooms. The system adopted for heating and ventilation is what is known as the mechanical supply and exhaust.

The notice sent last year, requiring better ventilation in the Central Street school-house, located in the city of Springfield, has been complied with during the past summer. The work is not yet completed, and my report of it must necessarily be an unfinished one; I have, however, made several preliminary examinations, and it promises to be very satisfactory. This building is a two-story brick structure, with a French roof, and contains twelve class rooms. The system adopted for ventilation is what is known as the mechanical exhaust.

I am pleased to report that the old and badly ventilated school-house located in the town of Agawam, unfavorably mentioned in a former report, is being replaced by a new one, supplied with modern and efficient means of heating and ventilation, which when completed will be a great improvement over the old one and a credit to the town.

A new school building, containing six class rooms with the modern conveniences, is being erected in the village of Thorndike in the town of Palmer, to take the place of an old one which was poorly adapted for school purposes and without any proper means for ventilation. The new building is to have modern means for heating and ventilation, also sanitariums. A large high-school building is being erected in the city of Northampton, also an eight-room grammar school in Easthampton and a twelve-room school building in the city of Holyoke. All these buildings are in various stages of construction, and are expected to meet the requirements of the law in every particular.

Section 24, chapter 481, Acts of 1894, requires all buildings which come under its provisions to have ample means of egress in case of fire. All orders issued under this law have been readily complied with. In making my visits of inspection this year I have found several buildings where the fire-escapes were so obstructed by rubbish of various kinds as to make it impossible to use them in case of fire, while in some buildings they had been taken down and used for firewood by the tenants without the owner's knowledge. There seems to be an unaccountable carelessness on the part of many to take even ordinary care of the means

provided for the safety of life and health, which makes it necessary for the inspector to exercise constant vigilance and oversight.

In spite of this, however, in reviewing the year as a whole and comparing it with preceding years I can see clearly that progress is being made along all lines, that the laws are being better understood, the wisdom of their requirements more intelligently apprehended and compliances are more cheerful and willing.

Plans Approved and Changes Recommended.

DISTRICT No. 7. WARREN S. BUXTON, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Ludlow mill, No. 3,	Ludlow,	Fire-stops.
Ludlow mill,	Ludlow,	Fire-escape.
Clark's Institute,	Northampton, . .	Smoke-stops; additional egress.
Nonotuck Silk Company, . . .	Northampton, . .	Fire-stops; additional egress.
First National Bank block, . .	Northampton, . .	Fire-stops.
Lamby block,	Northampton, . .	Fire-stops; additional egress.
Northampton high school, . .	Northampton, . .	Fire-stops.
Odd Fellows hall,	Palmer,	Fire-stops.
Thorndike grammar school, . .	Palmer,	Fire-stops.
Louis Ducharm's block,	Springfield, . . .	Fire-stops.
D. Fuller's tenement block, . .	Springfield, . . .	Fire-stops; additional egress.
Sanders's block,	Springfield, . . .	Fire-stops.
Springfield Industrial School, . .	Springfield, . . .	Fire-stops.
East Union Street school, annex, .	Springfield, . . .	Ventilation.
Pillsbury's block,	Springfield, . . .	Fire-stops.
J. S. Sanderson's block,	Springfield, . . .	Fire-stops.
Holyoke Card and Paper Company, .	Springfield, . . .	Additional egress.
Y. M. C. A. dormitory,	Springfield, . . .	Fire-stops.
Morgan's Envelope Company block, .	Springfield, . . .	Fire-stops.
W. O. Collins block,	Springfield, . . .	Fire-stops.
Central Street grammar school, . .	Springfield, . . .	Ventilation.
B. F. Taylor's Byas Street block, .	Springfield, . . .	Fire and smoke stops.
B. F. Taylor's Spring Street block, .	Springfield, . . .	Fire and smoke stops.
N. D. Bill's block,	Springfield, . . .	Fire-stops.
Whitney's block,	Springfield, . . .	Additional egress; fire stops.
Agawam grammar school,	Agawam,	Fire stops.
Lamb Manufacturing Company's factory.	Chicopee,	Fire-stops; additional egress.
Spaulding & Pepper rubber factory, .	Chicopee,	- -
Sawyer & Wolfe mill,	Easthampton, . .	- -

Plans Approved, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Easthampton grammar school, .	Easthampton, .	Fire-stops.
Noble & Cooley,	Granville, . .	Additional egress.
Lyman mills, No. 3,	Holyoke, . .	Fire-stops.
Smith, Wilson & Sears Paper Com- pany.	Holyoke, . .	Additional egress.
T. J. Carmody's tenement block, .	Holyoke, . .	Fire-stops.
Eugene Moriarty's tenement block,	Holyoke, . .	Fire-stops.
Robert Cowie's block,	Holyoke, . .	Fire-stops.
William Morrison's block, . .	Holyoke, . .	Fire-stops.
Ambroise Lanoue's block, . .	Holyoke, . .	Fire-stops.
Geo. W. Prentiss Company's Ware mill.	Holyoke, . .	Fire-stops; additional egress.
Hubbard & Taber's block, . .	Holyoke, . .	Fire-stops.
Crocker Manufacturing Company's mill.	Holyoke, . .	- -
T. C. Keough's tenement block, .	Holyoke, . .	Fire-stops.
H. W. Cooley's tenement block, .	Holyoke, . .	Fire-stops.
Ward 6 school building,	Holyoke, . .	Ventilation.
Whiting's Paper Company, . .	Holyoke, . .	- -
Lemuel Sears' block,	Holyoke, . .	Additional egress; fire-stops; elevator well lined with tin.
Geo. R. Dickinson Paper Company's mill.	Holyoke, . .	Fire-escape.
Farr Alpaca Company's mill, . .	Holyoke, . .	Fire-stops.
Onesime & Adolph Treparier's block,	Holyoke, . .	Fire-stops.
Brown Manufacturing Company's mill.	Holyoke, . .	Additional egress.

*Report of Buildings Inspected.*DISTRICT No. 7. WARREN S. BUXTON, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Chicopee.		
Ames Sword Company's factory, .	Outside fire-escape,	Complied.
Chester.		
Town hall,	No changes ordered,	-
Chester Hotel,	No changes ordered,	-
White's Hotel,	No changes ordered,	-
Easthampton.		
Easthampton Elastic Fabric Com- pany's mill.	Additional egress,	Complied.
Huntington.		
Park Hotel,	No changes,	-

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Holyoke.		
Potvin's block, No. 12 Potvin Avenue.	Balconies in the rear to be connected with each other by stairs.	Complied.
Potvin's block, No. 10 Potvin Avenue.	Fourth-story balcony to be connected with the third by stairs.	Complied.
Potvin's block, No. 103 Lyman Street.	No changes,	-
Potvin's block, No. 105 Lyman Street.	No changes,	-
Potvin's block, No. 93 Lyman Street.	No changes,	-
Potvin's block, No. 89 Lyman Street.	Rubbish on fire-escape removed, .	Complied.
Provo's block, No. 85 Lyman Street.	No changes,	-
King's block, No. 107 Lyman Street.	Put up stairs in place of ladder, .	Complied.
Potvin's block, No. 4 Potvin Avenue.	Rubbish on fire-escape to be removed; gates at head of fire-escape stairs.	Complied.
Potvin's block, No. 15 Grover Street.	No changes,	-
Potvin's block, No. 17 Grover Street.	No changes,	-
Street Railroad Company block, No. 13 Grover Street.	No changes,	-
Bolio's block, Nos. 14 and 16 Canal Street.	Make a passageway through the partition on the rear balcony.	Complied.
J. S. Carr's block,	Outside fire escape,	Complied.
Lovering's block,	No changes,	-
Ju-ld Paper Company's block, .	Tin the inside of elevator well, .	-
Smith & White Manufacturing Company.	Remove rubbish in basement around back stairs and keep the passageway clear.	-
Northampton.		
Clark's block,	Outside fire-escape,	Complied.
Monson.		
Bacon's block,	Outside stairways; rope fire-escapes,	Complied.
Wilbraham.		
Allen House,	No changes,	-

*Report of Buildings Inspected.*CLASS No. 1, DISTRICT No. 8. ANSEL J. CHENEY, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Andover.		
Mansion House,	Red lights; notices; gongs, . . .	-
Tyre Rubber Company's factory, .	None,	-
Abbott Academy,	Red lights; notices; watchman; gong,	-
Smith hall,	Portable fire escape; protect ceiling over furnace; means for extinguishing fire.	-
Abbott hall,	None,	-
Amesbury.		
L. Hollander's factory,	Fire-escape,	Complied.
Amesbury Carriage Company's factory.	None,	-
A. Perry's factory,	None,	-
Corporation boarding house, . . .	Portable fire-escapes,	Complied.
United States Hotel,	None,	-
American House,	Portable fire-escapes; notices in rooms; additional switches to gongs.	Complied.
Odd Fellows hall,	None,	-

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Beverly.		
Catholic Church,	Remove back row of seats in gallery; swing gallery doors out.	Complied.
C. Murphey's factory,	None,	-
Beverly House,	Portable fire-escapes,	Complied.
Geo. A. Allen's factory,	None,	-
Kilham's box factory,	None,	-
Baker Bros. factory,	None,	-
Methodist Church,	None,	-
Cabot House,	Portable fire-escapes,	Complied.
Association factory, No. 3,	Additional egress,	Complied.
Rogers' factory,	None,	-
Bradford.		
Bradford Academy,	Portable fire-escapes,	Complied.
Danvers.		
Red Men's hall,	Repair fire-escape,	Complied.
Crosby shoe factory,	None,	-
Essex.		
Harlon Tavern,	Fire-escape; portable fire-escape,	Complied.
Fuller shoe factory,	Repair fire-escape,	Complied.
Hotel Essex,	None,	-
Gloucester.		
Net and twine factory,	None,	-
Central House,	Portable fire-escapes,	Complied.
City hall,	None,	-
Babson school,	None,	-
Garland's block,	Fire-escape; portable fire-escapes,	Complied.
Ferguson's tenement-house,	Portable fire-escapes,	Complied.
Low's block,	Extend fire-escape,	Complied.
McCauly's boarding-house,	Portable fire-escapes,	Complied.
Oak Grove House,	None,	-
Fairview House,	None,	-
The Beachmont,	None,	-
The Surf Side Hotel,	Portable fire-escapes; electric alarm gongs; protect ceiling over kitchen range.	Complied.
Hawthorne Inn,	Zinc under kitchen and laundry stoves,	Complied.
The Manse Cottage,	Means for extinguishing fire,	Complied.
Province House,	Portable fire-escapes,	Complied.
Hawthorne Inn Cottage,	Portable fire-escapes,	Complied.
Delphine Hotel,	None,	-
Harbor View House,	None,	-
Bass Rock House,	None,	-
Grand View House,	None,	-
The Overlook,	Portable fire-escapes,	Complied.
The Magnolia,	Additional watchman,	Complied.
The Ocean Side,	Notices; red lights; portable fire-escapes.	Complied.
The Hesperus House,	Fire-escape; portable fire-escapes in rooms.	Complied.
Oxford House,	Portable fire-escapes,	Vacated.
Haverhill.		
Rugg block,	None,	-
Bullen block,	None,	-
Manard block,	Portable fire-escapes,	Complied.
The Allen block,	Portable fire-escapes,	Complied.
Allen's lodging house,	None,	-
Eaton's boarding house,	Portable fire-escapes,	Complied.
Chick Bros. factory,	Remove obstructions to fire escape,	Complied.
L. A. Finny's factory,	Fire-escape from fourth floor,	Complied.
J. B. Nichols's factory,	Fire-escape,	Complied.
Goodwin's block,	Better egress,	Complied.
The Bartlett,	Portable fire-escapes in several rooms; post notices.	Complied.
Cummings' block,	Portable fire-escapes,	Complied.
Gilman block,	None,	-
Webster building,	None,	-

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Haverhill — Con.		
Potter block,	Repair fire-escape in the rear,	Complied.
Hotel Thorndike,	None,	—
Swasey block,	Fire-escape,	—
Hotel Winsor,	Portable fire-escapes,	Complied.
The Wingate,	Portable fire-escapes,	Complied.
Franklin building,	None,	—
Dagget building,	None,	—
T. S. Rudduck's factory,	Remove obstruction to fire-escape,	Complied.
Hayes' block,	Remove obstruction to fire-escape,	Complied.
Taylor block, No. 1,	Portable fire-escapes,	Complied.
Taylor block, No. 2,	Portable fire-escapes,	Complied.
Taylor block, No. 3,	Portable fire-escapes,	Complied.
Robinson building,	Portable fire-escapes,	Complied.
Centre House,	Portable fire-escapes,	Complied.
Spaulding building,	Portable fire-escapes,	Complied.
Kimball's boarding-house,	Portable fire-escapes,	Complied.
Mrs. Burns's boarding-house,	Portable fire-escapes,	Complied.
Emerson's tenement house,	None,	—
Currier block, No. 1,	Fire-escapes,	Complied.
Currier block, No. 2,	None,	—
Hall block,	None,	—
Belanger block,	None,	—
Endicott block,	None,	—
Tilton block,	None,	—
Hamilton.		
Winnepaykin House,	None,	—
Chebacco House,	None,	—
Ipswich.		
Caldwell block,	None,	—
Nahant.		
Hotel Nahant,	Portable fire-escapes,	Complied.
Newbury.		
Plum Island Hotel,	— — — — —	—
Newburyport.		
Bay State Cordage Company's mill,	None,	—
Whitfield mills,	None,	—
Alexander block,	None,	—
Phoenix building,	Provide water-closets,	Complied.
Wyman block, No. 1,	Fire-escape,	Complied.
Wyman block, No. 2,	Fire-escape,	Complied.
W. & C. Johnson's store,	Provide water-closets for each sex,	Complied.
Soffard block,	Portable fire-escapes,	Complied.
White & Co., box factory,	None,	—
C. E. Coffin's hat factory,	None,	—
Atkinson building,	None,	—
North Andover.		
Congregational Church,	None,	—
Peabody.		
Balwin Hotel,	None,	—
Lawrence.		
Carruthers' block,	None,	—
Franklin House,	Fire-alarm gongs; portable escape; notices,	Complied.
Slater's block,	Portable fire-escapes,	Complied.
Bowker block,	Portable fire-escapes,	Complied.
Gleason block,	Portable fire-escapes,	Complied.
Phillips' block,	Portable fire-escapes,	Complied.
Sargent's block,	None,	—
Robinson block,	Portable fire-escapes,	—
Pillsbury's block,	None,	—
Washington mills block, No. 1,	Portable fire-escapes,	Complied.

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Lawrence — Con.		
Washington mills block, No. 2,	Portable fire-escapes,	Complied.
Washington mills block, No. 3,	Portable fire-escapes,	Complied.
Pemberton block,	Fire-escape,	-
Ordway's block,	None,	-
Essex House,	None,	-
Forbes' block,	None,	-
Collins' block,	None,	-
Shattuc & Plumer block,	None,	-
Hallahan's block,	Portable fire-escapes,	Complied.
Curran & Joyce block,	Fire-escape,	Complied.
Field's block,	Portable fire-escapes,	Complied.
Lynn.		
Joseph & Son's factory,	None,	-
McNair block,	None,	-
Emerson tenement-house,	Fire-escape,	Complied.
Mansion House,	Electric fire-alarm gongs; portable fire-escapes.	Complied.
West Lynn lodging-house,	None,	-
C. M. Moore tenement-house,	Portable fire-escapes,	Complied.
Clapp's block,	None,	-
Palmer House,	Portable fire-escapes,	Complied.
Barnard block,	Fire-escape,	Complied.
Bellevue block, No. 1,	None,	-
Bellevue block, No. 2,	None,	-
Hotel Palmer,	Portable fire-escapes,	Complied.
Foster block,	Provide better water-closets; portable fire-escapes.	Complied.
Allen block,	Electric fire-alarm gong,	Complied.
Old Morgan & Dare factory,	Fire-escape,	Complied.
Breed's block,	None,	-
Bubier block,	Fire-escape,	Complied.
Lynn Five Cent Savings Bank,	None,	-
Patten factory,	None,	-
Lee hall,	Additional egress; portable escapes,	Complied.
Miner block,	Stairway to be lighted,	Complied.
S. N. Breed building, No. 1,	Fire-escape,	Complied.
S. N. Breed building, No. 2,	Remove wood from steam pipes,	Complied.
S. N. Breed building, No. 3,	None,	-
Ingalls school,	None,	-
Hotel Brunswick,	None,	-
Bay View House,	None,	-
Odd Fellows hall,	None,	-
Kelley building,	None,	-
The Prescott,	Portable fire-escapes in certain rooms; notices.	Complied.
The Red Rock,	Portable fire-escapes,	-
Strout block, No. 3,	None,	-
The Seymour,	Portable fire-escapes; notices in certain rooms.	Complied.
Market Square House,	None,	-
Manchester.		
Masconomo House,	Portable fire-escapes,	Complied.
The Blynman,	None,	-
Marblehead.		
The Crownshield,	None,	-
Nanepashemet House,	Attic doors not to be locked; protect ceiling over laundry stove; supply from hose to stand-pipe.	Complied.
Merrimac.		
Merrimac House,	None,	-
Rockport.		
Mechanics hall,	None,	-
Turk's Head Inn,	None,	-
The Linwood,	None,	-
Ocean View House,	None,	-
Ocean View annex,	None,	-
Pigeon Cove House,	None,	-

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Swampscott.		
Merritt & Colt factory,	Fire-escape,	Vacated.
Ocean House,	Repair fire-alarm gongs; post notices; portable escapes; extra watchmen.	Complied.
Ocean House Cottage, A,	Portable fire-escapes,	Complied.
Ocean House Cottage, B,	Portable fire-escapes,	Complied.
Lincoln House,	None,	-
The Elms House,	None,	-
Hotel Preston,	None,	-
Salisbury.		
Sea Side House,	Notices; red lights; gongs,	Complied.
The Brunswick,	None,	-
Harriman House,	None,	-
Cable House,	None,	-
Atlantic House,	None,	-
Salem.		
Hawthorne building,	Provide suitable water-closets for each sex.	Complied.
Naumkeag House,	Fire-escape,	Complied.
Central House, No. 2,	None,	-
The Brunswick House,	Portable fire-escapes,	-
Hotel Washington,	-	-
The Globe boarding-house,	Portable fire-escapes,	Complied.
Kinsman rear block,	Extend fire-escape to ground,	Complied.
Mechanics hall,	None,	-
Lock factory,	None,	-
Clark's block,	Fire-escape,	Complied.
Newcomb factory,	None,	-
Phoenix building,	None,	-
Polo rink,	None,	-
Loring building,	Provide water-closets for each sex, .	Complied.
Tabernacle Church,	None,	-
Tabernacle Church Chapel,	None,	-
Hamilton & Blacom's factory, No. 1,	Additional egress,	Complied.
Hamilton & Blacom's factory, No. 2,	Rail stairs,	-
Harris building,	Fire-escape,	-
Warren House,	None,	-
Porter House,	Portable fire-escapes,	Complied.
Ocean View,	Post notices; repair fire-escape; portable fire escape.	Complied.
Central House,	None,	-

*Plans Approved and Changes Recommended.*DISTRICT No. 8. ANSEL J. CHENEY, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Crosby block,	Beverly,	Fire-stops.
Association factory,	Beverly,	None.
Association factory,	Beverly,	None.
Chase block,	Beverly,	Fire-stops.
C. Murphy factory, No. 1,	Beverly,	None.
C. Murphy factory, No. 2,	Beverly,	None.
North Shore Lumber Company mill,	Beverly,	Fire-escape.
Winchell's shoe factory,	Bradford,	None.

Plans Approved, etc. — Concluded.

BUILDING.	Location.	Changes Recommended.
Winchell's box factory, . . .	Bradford, . . .	None.
Bernard Friedman & Co. factory, .	Danvers, . . .	None.
The Overlook,	Gloucester, . . .	Fire-stops.
Dennings' tenement block, . . .	Gloucester, . . .	Fire-stops.
Kelley Bros.' block,	Haverhill, . . .	Additional egress; fire-escape.
Luskey block,	Haverhill, . . .	Fire-stops.
Emerson block alterations, . . .	Haverhill, . . .	Additional egress.
The Clinton block,	Haverhill, . . .	Additional egress.
Kinsman block,	Ipswich, . . .	Fire-stops.
Lemeaux tenement block, . . .	Ipswich, . . .	Additional egress; fire-stops.
Jewett block,	Ipswich, . . .	- -
Desmond block,	Lawrence, . . .	Fire-stops.
Renner's block,	Lawrence, . . .	Fire-stops.
Reardon block,	Lawrence, . . .	Fire-stops.
Godfrey block,	Lawrence, . . .	None.
Jean Sisters' block,	Lawrence, . . .	Two fire-walls in centre; fire-stops.
Sheedy block,	Lawrence, . . .	Fire-stops.
Cline's block,	Lawrence, . . .	Two fire-walls in centre; fire-stops.
Oswald's block,	Lawrence, . . .	Fire-wall in centre.
Convent,	Lynn, . . .	None.
McGovern block,	Lynn, . . .	Fire-stops.
Miles' block,	Lynn, . . .	Additional egress; fire-stops.
Phelan's block, No. 1,	Lynn, . . .	Fire-stops.
Phelan's block, No. 2,	Lynn, . . .	None.
Bond block,	Lynn, . . .	Fire-stops.
Strout block,	Lynn, . . .	More light in lower stairway.
Kelley & Green factory,	Lynn, . . .	None.
Clark block,	Lynn, . . .	Fire-proof stairways.
Huchingson block,	Lynn, . . .	None.
Hemmingway's block,	Lynn, . . .	None.
Lynnfield town hall,	Lynnfield, . . .	None.
Leblond block,	Salem, . . .	Fire-stops.
Audit's block,	Salem, . . .	Fire-stops.
Looney's factory,	Salem, . . .	None.
Therault block,	Salem, . . .	Fire-stops.
Power block,	Salem, . . .	Stairways changed.
Leblond block, No. 2,	Salem, . . .	None.

REPORT OF INSPECTOR SPLAINE.

SIR :— I herewith respectfully present the annual tabulated report of my factory and other inspections for the present year.

The surroundings in factories for persons employed there are growing better gradually and surely. There are better air and light; better toilets and other sanitary arrangements; dangerous machinery is more fully guarded; and the means of egress and escape, in case of fire, are improving from year to year. The law regulating the hours of labor for women and minors has been observed beyond my expectations, and the little ones have been given an opportunity to attend school. This is proved by the fact that in the factories and workshops inspected by me between Nov. 1, 1894, and June 17, 1895, not one child under fourteen years of age had been employed, and of children between fourteen and sixteen only fifty-six were employed.

Since my assignment by you, June 17 last, to look after certain buildings other than public buildings, under the provisions of sections 24 and 25, chapter 481, Acts of 1894, I have received from the architects promptly and cheerfully the plans required by law of such buildings to be erected in my district; changes recommended have been promptly made; in all cases ample ways of egress have been provided for these projected structures, and suitable devices for extinguishing fire have also been adopted. For some of the buildings heretofore existing and at present occupied I have found it necessary to recommend additional means of egress or means for extinguishing fire, or both.

Other requirements of the inspection laws have been as faithfully attended to as those above enumerated, with entirely satisfactory results.

Recapitulation of Factory Inspections, District No. 9, for the Year ending Oct. 31, 1895.

Factories inspected,	307
Orders issued,	160
Compliances,	160
Whole number of persons employed,	14,794
Males employed,	11,764
Females employed,	3,030
Children between thirteen and fourteen years,	—
Children between fourteen and sixteen years,	56

*Plans Approved and Changes Recommended.*DISTRICT No. 9. HENRY SPLAINE, *Inspector.*

BUILDING.	Location.	Changes Recommended.
The Colchester apartment house, .	Brookline, . .	Fire-escape; means of extinguishing fire.
Bassett's hat factory, . . .	Franklin, . .	Fire-escape.
Van Choate's electrical building, .	Foxborough, .	Additional egress.
Cole's boarding house, . . .	Hopedale, . .	None.
Bradley, Hagney & Leonard's shoe factory, .	Randolph, . .	Fire-escape.
Nelson & Le Dow's hat shop, . .	Upton, . . .	None.
Strong & Garfield's shoe factory, .	Weymouth, . .	Fire-escape.
Edwards & Sons shirt factory, .	Natick, . . .	Fire-escape.

*Report of Buildings Inspected.*CLASS No. 1, DISTRICT No. 9. HENRY SPLAINE, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Braintree.		
R. H. Long's shoe factory, . . .	None,	—
Hotel Brunswick,	Rope fire-escapes,	Complied.
Closson's shoe factory, . . .	None,	—
Williams & Kneeland factory, . .	None,	—
The Jenkins Manufacturing Company mill, .	None,	—
Old Colony cotton mills, . . .	None,	—
Morrison's mill, No. 1,	None,	—
Morrison's mill, No. 2,	None,	—
Drinkwater's tannery,	None,	—
Braintree almshouse,	Means of extinguishing fire, . .	Complied.
Brookline.		
Colchester apartment house, . .	Fire-escape; means of extinguishing fire.	Complied.
Canton.		
Hotel Wellington,	None,	—
Dedham.		
Norfolk House,	None,	—
Reunion House,	Egress; means of extinguishing fire,	Complied.
Central House,	Rope fire-escapes,	Complied.
Merchants' woolen mill,	None,	—
Norfolk mills,	None,	—
Dedham almshouse,	None,	—
Franklin.		
Edwin P. Bassett's factory, . .	None,	—
Hotel Briggs,	Rope fire-escapes; ladders, . .	Complied.
Trowbridge Piano Company, . .	None,	—
Mrs. Briggs' boarding-house, . .	Rope fire-escapes,	Complied.
Erickson & Stewart, straw, . .	None,	—
Franklin House,	Means of extinguishing fire, . .	Complied.
Boston Rubber Company's mill, .	None,	—
Ray's Woolen Company,	Additional egress,	Complied.
Haywood's shoddy mill,	Means of extinguishing fire, . .	Complied.
Town farmhouse,	Additional egress; means of extinguishing fire.	Complied.
Crescent House,	None,	—
Deane Academy,	None,	—

Report of Buildings Inspected — Continued.

NAME OF BUILDING.	Orders Given.	Compliances.
Framingham.		
French Bros.' block, . . .	Means of extinguishing fire, . . .	-
Hopedale.		
Cole's boarding-house, . . .	None,	-
Hyde Park.		
Knight's cotton factory,	None,	-
Fairmount Manufacturing Com- pany.	Means of extinguishing fire, . . .	Complied.
American Tool and Machine Com- pany.	None,	-
Lincoln House, tenements, . . .	Means of extinguishing fire, . . .	Complied.
The Everett House, tenements, .	None,	-
Medfield.		
The Elmwood Hotel,	None,	-
Milton.		
Baker's chocolate mill,	None,	-
The New York Biscuit Company, .	None,	-
Town farm building, No. 1, . . .	None,	-
Town farm building, No. 2, . . .	None,	-
Milton Academy, Robbins House,	None,	-
Milton Academy, Forbes House, .	None,	-
Norwood.		
"Norwood House,"	None,	-
Quincy.		
Quincy almshouse,	None,	-
Hancock House,	Ropes; means of extinguishing fire, .	Complied.
Wollaston steam laundry,	None,	-
Rodman House,	Ropes; means of extinguishing fire, .	Complied.
Great Hill House,	Rope fire-escapes,	Complied.
Ferris House,	None,	-
Pierce's Hotel,	None,	-
Quincy Hotel,	Rope fire-escapes,	Complied.
The Greenleaf Hotel,	Rope fire-escapes; means of extin- guishing fire.	Complied.
Durgan & Merrill's block,	None,	-
Rogers' shoe factory,	None,	-
Whitcher's shoe factory,	None,	-
Graham's shoe factory,	Means of extinguishing fire, . . .	Complied.
Tubular Rivet and Stud Company building, No. 1.	None,	-
Tubular Rivet and Stud Company building, No. 2.	None,	-
Tubular Rivet and Stud Company building, No. 3.	None,	-
Miller's tenement-house,	Means of extinguishing fire, . . .	Complied.
Randolph.		
Peach's shoe factory,	None,	-
Howard House,	None,	-
Bryant Boot and Shoe Company, .	None,	-
Shoe factory of Bradley, Hagney & Leonard.	Fire-escape,	Complied.
Doughty's building,	None,	-
James A. Brennan,	None,	-
Randolph almshouse,	None,	-
Sharon.		
The Sharon,	Rope fire-escapes,	Complied.
Massapoag Lake Hotel,	Rope fire-escapes,	Complied.
Lakeview House,	None,	-
Upton.		
Nelson & Le Dow's hat factory, .	None,	-

Report of Buildings Inspected — Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Weymouth.		
Hotel Monatiquot,	Ropes; means of extinguishing fire, .	Complied.
The Bayside boarding-house, . .	None,	-
Wesagussett House,	None,	-
Juniper House, boarding-house, .	None,	-
Strong & Garfield Company shoe factory.	Fire-escape,	In process.
Dizer's shoe factory,	None,	-

*Report of Elevators Inspected.*DISTRICT No. 9. HENRY SPLAINE, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Abington.				
M. N. Arnold & Co.,	1	Good,	None,	-
M. N. Arnold & Co.,	1	Good,	None (east wing), . . .	-
Braintree.				
B. H. Woodsum & Co.,	1	Good,	None,	-
Williams & Kneeland,	1	Good,	None,	-
Arza B. Kent,	1	Good,	None (inside hoistway), .	-
Ambler & Hobart,	1	Good,	None,	-
A. C. Drinkwater,	1	Good,	None,	-
Bridgewater.				
McElwain & Shaw,	1	Good,	None (handworked), . .	-
Eagle Cotton Gin Co.,	1	Good,	None (small),	-
Eagle Cotton Gin Co.,	1	Good,	None (large),	-
F. T. & H. C. LeBarron, . . .	1	Good,	None,	-
Brockton.				
Joyce & Fletcher,	1	Unsafe,	Automatic rails on all openings.	Complied.
Canton.				
Kinsley Iron Co.,	1	Good,	None (large inside hoistway).	-
Kinsley Iron Co.,	1	Good,	None (small),	-
Francis D. Dunbar,	1	Good,	None (dummy),	-
American Net and Twine Co., .	1	Good,	None,	-
Canton Manufacturing and Bleaching Co.	1	Good,	None (large elevator), .	-
Canton Manufacturing and Bleaching Co.	1	Good,	None (inside hoistway), .	-
Canton Manufacturing and Bleaching Co.	1	Good,	None (small inside hoistway).	-
Canton Manufacturing and Bleaching Co.	1	Good,	None (roll elevator), .	-
The Lexington print works, .	1	Good,	None (outside hoistway),	-
Draper Brothers' Sons,	1	Good,	None (outside hoistway),	-
Draper Brothers' Sons,	1	Good,	None (outside hoistway, office end).	-
Draper Brothers Co,	1	Good,	None (outside hoistway),	-
Morse Brothers,	1	Good,	None (elevator),	-
Morse Brothers,	1	Good,	None (inside hoistway), .	-
Knitted Mattress Co.,	1	Good,	None,	-
Dedham.				
J. V. Abbott Manufacturing Co, .	1	Good,	None (inside hoistway), .	-

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
East Bridgewater.				
Joshua Dean,	1	Good,	None (inside hoistway), .	-
Carver Cotton Gin Co., . . .	1	Good,	None (casting room), .	-
Carver Cotton Gin Co., . . .	1	Good,	None (carpenter's room),	-
Welch, Brush & Co.,	1	Good,	None,	-
Hyde Park.				
Brainard Milling Machine Co., .	1	Good,	None,	-
Brainard Milling Machine Co., .	1	Good,	None ("Whittier"), . .	-
The Brainard Foundry Co., . .	1	Good,	None,	-
John F. Robinson & Co., . . .	1	Good,	None,	-
Charles H. Currier,	1	Good,	None,	-
American Tool and Machine Co.,	1	Good,	None (outside hoistway),	-
Thomas H. Gray,	1	Good,	None (inside hoistway), .	-
Robert Blakie & Co.,	1	Good,	None,	-
Robert Blakie & Co.,	1	Good,	None (outside hoistway),	-
Readville Color Works,	1	Good,	None (inside hoistway), .	-
Readville Color Works,	1	Good,	None (inside steam whipl),	-
Glover & Willcomb,	1	Good,	None (inside hoistway), .	-
John Appell,	1	Good,	None (outside hoistway),	-
Hood & Reynolds,	1	Good,	None (outside hoistway),	-
Tileston & Hollingsworth Co., .	1	Good,	None (hydraulic), . . .	-
Tileston & Hollingsworth Co., .	1	Good,	None (largest),	-
Tileston & Hollingsworth Co., .	1	Good,	None ("Whittier"), . .	-
Tileston & Hollingsworth Co., .	1	Good,	None (Sumner mill), . .	-
Medfield.				
Searle, Dailey & Co.,	1	Unsafe,	Repair safety device, .	Complied.
Searle, Dailey & Co.,	1	Good,	None (small elevator), .	-
Maud A. Curtis,	1	Good,	None (inside hoistway), .	-
Middleborough.				
Hathaway, Soule & Harrington, .	1	Good,	None,	-
Murdoch Parlor Grate Co., . . .	1	Good,	None (large elevator), .	-
Clark & Cole,	1	Unsafe,	Repair safety device, .	Complied.
Leonard & Barrows,	1	Unsafe,	Repair safety device, .	Complied.
Schleuter Brothers,	1	Good,	None (outside hoistway),	-
Bay State straw works,	1	Good,	None (building No. 2), .	-
Bay State straw works,	1	Good,	None (smaller),	-
C. H. Alden & Co.,	1	Good,	None (inside hoistway), .	-
Keih & Pratt,	1	Good,	None (inside hoistway), .	-
Milton.				
Walter Baker & Co.,	1	Good,	None (grist mill end), .	-
Walter Baker & Co.,	1	Good,	None (smallest),	-
Walter Baker & Co.,	1	Good,	None (new small elevator),	-
Walter Baker & Co.,	1	Good,	None (main wooden building),	-
Walter Baker & Co.,	1	Good,	None (corner brick building),	-
Walter Baker & Co.,	1	Good,	None (Ware mill),	-
The N. Y. Biscuit Co.,	1	Good,	None (larger),	-
The N. Y. Biscuit Co.,	1	Good,	None (smaller),	-
Geo. H. Bent & Co.,	1	Good,	None (inside hoistway), .	-
Norfolk.				
City Mills Co.,	1	Good,	None (outside hoistway),	-
Norwood.				
Lyman Smith's Sons Co.,	1	Good,	None (inside hoistway), .	-
Chandler & Gay,	1	Good,	None (outside hoistway),	-
N. Y. & N. E. R.R. Corporation,	1	Good,	None (inside hoistway), .	-
H. M. Plymton & Co.,	1	Unsafe,	Repair safety device, .	Complied.
Winslow Brothers,	1	Good,	None,	-
H. M. Morrill & Co.,	1	Good,	None,	-
Quincy.				
Wallaston Foundry Co.,	1	Good,	None,	-
Wallaston Steam Laundry, . . .	1	Good,	None (inside hoistway), .	-
Charles F. Bates,	1	Good,	None (steam hoistway), .	-

Report of Elevators Inspected—Concluded.

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Quincy—Con.				
Tubular Rivet and Stud Co., . . .	1	Good,	None (oldest building), . .	-
Tubular Rivet and Stud Co., . . .	1	Good,	None (smaller brick building).	-
Tubular Rivet and Stud Co., . . .	1	Good,	None (hoistway for machinery).	-
Tubular Rivet and Stud Co., . . .	1	Good,	None (inside hoistway), . .	-
John E. Drake Shoe Co., . . .	1	Good,	None (inside hoistway), . .	-
T. A. Whitchee & Co., . . .	1	Good,	None (very small), . .	-
E. W. Gourd & Co., . . .	1	Good,	None (outside hoistway), . .	-
Sharon.				
G. R. & W. R. Mann, . . .	1	Good,	None,	-
G. R. & W. R. Mann, . . .	1	Good,	None (crane elevator), . .	-
Walpole.				
Union Sandpaper Co., . . .	1	Good,	Automatic gates to well, . .	Complied.
F. W. Bird & Son, . . .	1	Good,	None,	-
Walpole Dye and Chemical Co., . .	1	Good,	None,	-
Walpole Dye and Chemical Co., . .	1	Good,	None (inside hoistway), . .	-
Edward Ellis, . . .	1	Good,	None (inside hoistway), . .	-
Bradford Lewis & Son, . . .	1	Good,	None,	-
Lewis Batting Co., . . .	1	Good,	None (inside hoistway), . .	-
Weymouth.				
H. B. Reed & Co., . . .	1	Good,	None,	-
Edon Sherman's Sons, . . .	1	Good,	None (inside hoistway), . .	-
A. O. Crawford & Co., . . .	1	Good,	None (handworked), . .	-
E. H. Stetson & Co., . . .	1	Good,	None,	-
Richard Loud & Sons, . . .	1	Good,	None (handworked), . .	-
John E. Mann, . . .	1	Good,	None,	-
M. C. Dizer & Co., . . .	1	Good,	None (shoe factory), . .	-
M. C. Dizer & Co., . . .	1	Good,	None (tannery), . . .	-
Michael Sheehy, . . .	1	Good,	None,	-
Strong & Carroll, . . .	1	Good,	None,	-
Edwin Clapp, . . .	1	Good,	None,	-
Sherman Brothers, . . .	1	Good,	None (inside hoistway), . .	-
Geo. H. Bicknell, . . .	1	Good,	None,	-
Torrey, Curtis & Tirrell, . . .	1	Good,	None,	-
Nash & White, . . .	1	Good,	None (inside tackle), . .	-
Wrentham.				
Daniel Brown, . . .	1	Good,	None (freight), . . .	-
Daniel Brown, . . .	1	Good,	None (large elevator), . .	-

REPORT OF INSPECTOR MERRIAM.

SIR:—I have the honor to submit the following report of work performed by me during the past year, presented, so far as practicable, in tabulated form.

The work connected with the ventilation and sanitary condition of public and school buildings, in the various ways, has, as in years previous, taken a large portion of my time. Many buildings provided with systems in the early work have been visited by request of committees and tested for the object of further improvements. Of the unventilated buildings, where changes have been made the past year, the following are worthy of note:—

Liberty Street School, Adams.—The building is two stories and mansard in height, and has ten class rooms and a hall. It

was formerly heated by four portable furnaces, with the old-style piping and floor registers with valves. The improvements consist of an exhaust fan driven by a water motor, and four sections of two medium-sized brick set furnaces, arranged so that one or both may be used, as circumstances require. The flues are well located and of ample size. An anemometer test gave an average in eight of the class rooms of over forty cubic feet of air per minute per seat in exhaust. The corridors and sanitary rooms are also provided for. The hall and two class rooms in mansard story are unoccupied at present and are disconnected.

Hamilton Street School, Holyoke. — The building is two stories in height, with twelve class rooms and a hall in roof story. It was formerly heated by direct steam-coil circulation. The improvements consist of a plenum and two exhaust fans driven by an electric motor, and of the removing of the direct surface in rooms and arranging it as indirect in the basement. An anemometer test gave an average in exhaust of thirty-three and in supply of forty-one cubic feet of air per minute per seat in the class rooms. The sanitary rooms are provided with the fan supply and a gravity exhaust.

Nonotuck Street School, Holyoke. — The building is three stories in height, with ten class rooms and a hall. It was formerly heated by direct steam. The improvements consist of the Fuller & Warren Company's system of furnace heat and an exhaust fan driven by a gas engine. At my last visit the flues had not been equalized, so tests were not made further than to see that the required amount of air was being handled. The sanitariums remain as they were, as other changes are being considered.

High School, Amherst. — The building is two stories in height, with three class rooms on first floor and one large high-school room and four recitation rooms on second. It was formerly heated by portable furnaces in the old way. The improvements consist of a modern gravity system, furnace heat and hot-water coils in exhaust flues. The general arrangement is very good, but no tests have been made.

Of the buildings on which notices were issued last year for better ventilation and sanitary conditions, two, the Mittineague school of Agawam and the Three Rivers school of Palmer, are being replaced by new ones. The same applies to four buildings visited this year, one in Dalton and three in Pittsfield.

The usual number of plans for new buildings has been deposited the past year, and in most cases they were submitted in unfinished form and corrected where necessary to comply with the requirements of the laws of the Commonwealth. Of the school

buildings, a large portion of them are provided with mechanical systems of ventilation, approved location of sanitaries and modern facilities for the care of clothing.

Plans Approved and Changes Recommended.

DISTRICT No. 10. FREDERICK W. MERRIAM, *Inspector.*

BUILDING.	Location.	Changes Recommended.
Armory building,	Adams,	Fire-stops; change in doors.
Baptist Church,	Adams,	Suggestions on ventilation.
Berkshire Cotton Company's mill, .	Adams,	None.
Odd Fellows building,	Buckland,	Fire-stops; better egress.
Newell block,	Buckland,	None.
Craneville school,	Dalton,	Suggestions on ventilation.
State normal school,	North Adams, .	Suggestions on ventilation; protection against fire.
Blackington F. M. T. A. building, .	North Adams, .	Suggestions on ventilation.
Dowling block,	North Adams, .	None.
Opera House,	North Adams, .	Suggestions on ventilation; egress.
Merrill block,	Pittsfield, . . .	Better egress.
Savings bank block, in part, . . .	Pittsfield, . . .	No action taken.
John Street school,	Pittsfield, . . .	None.
Russell school,	Pittsfield, . . .	Suggestions on ventilation.
Elizabeth Street school,	Pittsfield, . . .	Suggestions on ventilation.
High school,	Pittsfield, . . .	None.
Danforth block,	Williamstown, .	Additional egress.
High school annex,	Williamstown, .	Ventilation.

Report of Buildings Inspected.

CLASS No. 1, DISTRICT No. 10. FREDERICK W. MERRIAM, *Inspector.*

NAME OF BUILDING.	Orders Given.	Compliances.
Adams.		
Commercial Street School, . . .	Sanitary; ventilation,	-
Liberty Street school,	Sanitary; ventilation,	Complied.
Amherst.		
High school,	Sanitary; ventilation,	Complied.
Chicopee.		
Willimansett school,	Sanitary; ventilation,	-
Dalton.		
Craneville school,	Sanitary; ventilation,	Abandoned.
Hinsdale.		
Church Street school,	Sanitary; ventilation,	Complied.

Report of Buildings Inspected—Concluded.

NAME OF BUILDING.	Orders Given.	Compliances.
Holyoke.		
Hamilton Street school, . . .	Sanitary; ventilation, . . .	Complied.
Nonotuck Street school, . . .	Sanitary; ventilation, . . .	Complied.
Montague.		
Central Street school, . . .	Sanitary; ventilation, . . .	Complied.
South End school, . . .	Sanitary; ventilation, . . .	Complied.
North Adams.		
Union Street school, . . .	Sanitary; ventilation, . . .	-
Veasey Street school, . . .	Sanitary; ventilation, . . .	To be abandoned.
Pittsfield.		
Werts block, . . .	Fire-escape, . . .	Complied.
Central block, . . .	Change in fire escape granted, . . .	-
Elizabeth Street school, . . .	Sanitary; ventilation, . . .	Abandoned.
John Street school, . . .	Suggestions on ventilation, . . .	Abandoned.
Russell school, . . .	Suggestions on ventilation, . . .	Abandoned.
Orchard Street school, . . .	Sanitary; ventilation, . . .	Complied.
Shelburne.		
Arms Academy, . . .	Sanitary; ventilation, . . .	-
Williamstown.		
Ruther block, . . .	Fire-escape, . . .	Complied.
G. A. R. hall, . . .	Fire-escape, . . .	Complied.
Goodrich hall, . . .	Strengthen floors, . . .	Complied.

Certificates Issued.

PUBLIC BUILDINGS, FACTORIES, WORKSHOPS AND TENE- MENT-HOUSES.	Story.	Location.	Date of Certificate.	INSPECTOR.
1895.				
Red Men's building, . . .	2	Danvers, . .	May 6,	A. J. Cheney.
Red Men's building, . . .	3	Danvers, . .	6,	A. J. Cheney.
Richardson's Hotel, . . .	1	Lowell, . .	Aug. 1,	H. J. Bardwell.
Richardson's Hotel, . . .	2	Lowell, . .	1,	H. J. Bardwell.
Richardson's Hotel, . . .	3	Lowell, . .	1,	H. J. Bardwell.
Richardson's Hotel, . . .	4	Lowell, . .	1,	H. J. Bardwell.
Huntington hall, . . .	*	Lowell, . .	14,	J. T. White.
Huntington hall, . . .	†	Lowell, . .	14,	J. T. White.
Jackson hall, . . .	-	Lowell, . .	14,	J. T. White.
Music hall, life insurance building, . . .	4	Pittsfield, . .	14,	F. W. Merriam.
Massapoag Lake Hotel, . . .	2	Sharon, . .	14,	Henry Splaine.
Massapoag Lake Hotel, . . .	3	Sharon, . .	14,	Henry Splaine.
Massapoag Lake Hotel, . . .	4	Sharon, . .	14,	Henry Splaine.
Academy of Music, . . .	†	Chelsea, . .	Sept. 10,	E. Y. Brown.
Academy of Music, . . .	§	Chelsea, . .	10,	E. Y. Brown.
Academy of Music, . . .	*	Chelsea, . .	10,	E. Y. Brown.
Odd Fellows hall, . . .	4	Chelsea, . .	10,	E. Y. Brown.
Pilgrim hall, Odd Fellows building, . . .	2	Chelsea, . .	10,	E. Y. Brown.
French Bros.' block, . . .	1	Framingham, . .	Oct. 9,	Henry Splaine.
French Bros.' block, . . .	2	Framingham, . .	9,	Henry Splaine.
French Bros.' block, . . .	3	Framingham, . .	9,	Henry Splaine.

* Gallery.

† Parquet.

‡ Orchestra.

§ Balcony.

INSPECTION OF MANUFACTURING, MECHANICAL AND MERCANTILE ESTABLISHMENTS, INCLUDING ORDERS ISSUED.

REPORT OF INSPECTOR MURRAY.

SIR:—I have the honor to submit the following report of work performed by me during the past year.

The law relating to the guarding of dangerous machinery is one that requires constant attention on the part of an inspector. The frequent changing of machinery in a factory, and removal of safeguards provided to protect life and limb, render it necessary to send many orders for better protection of the operatives against accidents. In all cases where notices have been given they were promptly complied with.

The law relating to the employment of women and minors is well observed by the manufacturers. A few complaints of violation of the fifty-eight-hour law have been received and investigated, and in each instance when the manufacturer was notified of the violation he cheerfully complied.

The elevators inspected are generally found to be in good condition; and in the case of those not provided with some form of safety device whereby the car is held in case of accident to the shipper rope or hoisting machinery, orders have been given to remedy the same, and in every case the order was complied with immediately. All openings to well-holes and hoistways have been carefully guarded.

The law relating to the employment of children under sixteen years of age is generally complied with. When any violations have been found and the responsible parties notified, certificates were procured at once and placed on file.

The sanitary condition of factories and workshops is a matter of great importance, and requires careful supervision. During the past year much improvement has been made in this direction. I have issued several orders for better sanitary arrangements and ventilation, and they have all been complied with in a very satisfactory manner. In many cases it is very difficult to keep the closets in a proper condition of cleanliness, owing in a great measure to the carelessness of the operatives.

In no instance during the past year have I found doors locked during the hours of labor, so as to prevent free egress of operatives in case of fire.

The law relating to illiterate minors is strictly observed in this district in the cities and towns wherein evening schools are maintained, and I am pleased to say is well carried out, from the fact

that the overseers or superintendents are careful not to employ illiterate minors unless they attend evening school.

I have given much time to the enforcement of the law relating to the weekly payment of wages, which applies to any corporation, person or partnership engaged in any manufacturing business, and having more than twenty-five persons employed. I also investigated several complaints, and found that the violations occurred from the fact that the law was not properly understood.

In conclusion, I am pleased to say that the same courtesy has been extended to me as heretofore by those with whom it has been my duty to come in contact.

Inspections made,	317
Orders issued,	579
Compliances,	574
Children between thirteen and fourteen years, . .	17
Children between fourteen and sixteen years, . .	813
Males employed,	19,569
Females employed,	13,516
Total number employed,	33,085

DISTRICT No. 1,

JAMES C. MURRAY, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
AYER.								
The Merrill-James Shoe Co.,	Shoes, . . .	26	9	—	—	Good, .	Post time tables; guard set screws,	Complied.
Levi W. Phelps, . . .	Lumber and boxes,	20	—	—	—	Fair, .	Guard belt in planing mill, . .	Complied.
W. T. Piper & Co., . . .	Cider and vinegar,	7	—	—	—	Fair, .	Guard openings and belt; box driving wheel and belt; rail stairway.	Complied.
Sigsbee Manufacturing Co.,	Children's clothing,	—	14	—	—	Good, .	Post time tables; guard portion of shafting in stitching room.	Complied.
D. L. Chandler, . . .	Machinery, . . .	4	—	—	—	Fair, .	Guard set screws and fly wheel, .	Complied.
Ayer Foundry Co., . . .	Iron, . . .	7	—	—	—	Fair, .	Guard fly wheels and saw; clean privy.	Complied.
ACTON.								
Hall Bros., . . .	Tubs and pails, . .	22	—	—	1	Fair, .	Procure certificate; post time table,	Complied.
A. Merriam & Co., . . .	Piano stools, . .	16	1	—	—	Fair, .	New cable to elevator, . . .	Complied.
B. M. Kimball & Son, . .	Leather, . . .	53	—	—	1	Fair, .	Procure certificate; post time table,	Complied.
ARLINGTON.								
Charles Schwamb & Son, . .	Picture frames, .	12	—	—	2	Fair, .	Procure certificate; post time tables,	Complied.
Samuel A. Fowle, . . .	Dye wood and chemicals,	29	—	—	—	Fair, .	Guard set screws and belt; rail to stairway in grain mill.	Complied.
BILLERICA.								
Talbot Mills, . . .	Flannels, . . .	209	112	—	48	Good, .	Guard set screws and belt, . . .	Complied.
Faulkner Manufacturing Co, . .	Flannels, . . .	59	35	—	6	Good, .	Procure certificate; post time tables,	Complied.

DISTRICT NO. 1 — Continued.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Females.		Under 14.	14 to 16.			
		Males.						
BURLINGTON.								
W. E. Carter, . . .	Pasted shoe stock,	11	8	—	1	Fair, .	Procure certificate; post time tables; guard set screws.	Complied.
George L. Tibbetts, . . .	Pasted shoe stock,	2	4	—	1	Fair, .	Procure certificate; post time tables,	Complied.
CAMBRIDGE								
West End Street Railway power station.	Electric power, .	50	—	—	—	Good, .	Guard openings and driving wheels,	Complied.
Chadwick Lead Works, . . .	Lead, . . .	14	—	—	—	Good, .	Guard dynamo and belt, . . .	Complied.
University Press, . . .	Printing, . . .	179	120	—	—	Good, .	Guard set screws, . . .	Complied.
Geo. G. Page Box Co., . . .	Boxes, . . .	65	—	—	1	Good, .	Guard set screws, . . .	Complied.
Lysander Kemp & Sons, . . .	Soap, . . .	15	—	—	—	Good, .	Guard set screws, . . .	Complied.
Carlos L. Page & Co, . . .	Boxes, . . .	42	—	—	—	Good, .	Guard set screws, . . .	Complied.
D. Wilcox & Co, . . .	Hats, . . .	54	36	—	—	Good, .	Guard set screws, . . .	Complied.
Curtis Davis & Co., . . .	Soap, . . .	80	—	—	4	Good, .	Certificates for two minors; guard set screws.	Complied.
James C. Davis & Son, . . .	Washing powder and soap,	21	2	—	—	Good, .	Guard set screws, . . .	Complied.
Bay State Metal Works, . . .	Metal cornices, . . .	20	—	—	—	Good, .	Guard belt, . . .	Complied.
Edward W. Wheeler,. . .	Job printing, . . .	9	9	—	1	Good, .	Procure certificate; guard set screws and dynamo.	Complied.
J. H. H. McNamee, . . .	Bookbinding, . . .	14	10	—	2	Good, .	Certificates for two minors. . .	Complied.

Jensen Bros., . . .	Confectionery, . . .	4	2	-	Good, . .	Post time tables; guard elevator well on each floor.	Complied.
American Electric Lead Co., . .	White lead, . . .	8	-	-	Fair, . .	Guard dynamo belt and shafting on second floor.	Complied.
Standard Brass Co., . . .	Plumbers' supplies, . .	30	-	3	Good, . .	Guard dynamo, belt and set screws,	Complied.
American Net and Twine Co., . .	Net and twine, . . .	25	225	-	Good, . .	Guard set screws; designate water-closet.	Complied.
Hawkins & Seelye Machine Co., .	Machinery, . . .	18	-	1	Good, . .	Procure certificate; guard set screws; rail to stairway.	Complied.
H. F. Sparrow, . . .	Confectionery, . . .	20	40	1	Fair, . .	Guard set screws; designate water-closets.	Complied.
Edward Kendall & Sons, . . .	Steam boilers, . . .	75	-	-	Fair, . .	Guard set screws, fly wheel of air engine and dynamo.	Complied.
Roberts Iron Works Co., . . .	Steam boilers, . . .	45	-	-	Fair, . .	Guard set screws; clean and repair privies.	Complied.
John C. Bean, . . .	Pattern and model making, . . .	3	-	-	Fair, . .	Provide water-closet, . . .	Complied.
William Campbell & Co., . . .	Steam boilers, . . .	20	-	-	Fair, . .	Guard set screws and driving wheels to stamping machines.	Complied.
Goepper Bros. Co., . . .	Barrels, . . .	45	-	-	Fair, . .	Clean privy, . . .	Complied.
American Rubber Co., . . .	Rubber shoes and clothing, . . .	493	724	5	Good, . .	Procure certificate; post time tables; guard driving wheel and belt to condenser; safety device for two elevators.	Complied.
D. M. Hazen & Sons, . . .	Confectionery, . . .	15	45	-	Fair, . .	Guard fly wheel, dynamo and set screws.	Complied.
The Geo. F. Blake Manufg Co., .	- . .	364	-	-	Good, . .	Post time table; guard dynamos and belts.	Complied.
Cambridge Laundry, . . .	Laundry, . . .	13	89	4	Good, . .	Guard set screws, . . .	Complied.
The Riverside Press, . . .	Job printing, . . .	395	255	2	Good, . .	Guard set screws, . . .	Complied.
Riverside Bindery, . . .	Bookbinding, . . .	35	45	-	Good, . .	Guard set screws, . . .	Complied.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14. 14 to 16.			
CAMBRIDGE — <i>Concluded.</i>							
Riverside Pottery, . . .	Flower pots, .	4	—	—	Poor, .	Provide water-closet; safety device for elevator.	Complied.
The Dover Stamping Co., . .	Tinware, .	127	16	1	Fair, .	Guard set screws, . . .	Complied.
Somerville Desk Co., . . .	Desks, . . .	90	—	—	Good, .	Post time table; guard saws, set screws and openings to elevator well.	Complied.
A. H. Davenport, . . .	Furniture, .	120	—	—	Good, .	Guard set screws and saws, . .	Complied.
A. B. & E. L. Shaw, . . .	Furniture, .	75	—	—	Good, .	Guard saws, . . .	Complied.
A. H. Hews & Co., . . .	Earthenware, .	77	18	6	Fair, .	Procure certificate; post time tables; guard set screws.	Complied.
Keeler & Co., . . .	Furniture, .	35	—	—	Fair, .	Guard set screws, saws and elevator well on each floor.	Complied.
Irving & Casson, . . .	House finish, .	99	—	—	Good, .	Guard saws, . . .	Complied.
J. H. Keenan & Co., . . .	House finish, .	46	—	—	Fair, .	Guard saws, doorway on second floor and elevator well on second and third floors.	Complied.
Sawyer Belting Co., . . .	Canvas belting, .	4	8	—	Fair, .	Post time tables; designate water-closet.	Complied.
Seaverns Piano Action Co., .	Piano actions, .	58	7	4	Fair, .	Procure certificates; posttime tables, Guard set screws, fly wheel and belts.	Complied.
E. A. Muller, . . .	Leather, . .	40	—	—	Fair, .		Complied.

Laminar Fibre Co., . . .	Fibre goods,	29	-	-	-	Good,	Guard set screws and outside opening on second and third floors.	Complied.
The Connecticut Steam Stone Co.,	Cut stone, . . .	15	-	-	1	Fair,	Procure certificate; post time table; guard fly wheel, crank, belt and set screws; provide privy.	Complied.
William L. Lockhart & Co.,	Caskets and coffins,	56	14	-	-	Fair,	Guard saws,	Complied.
H. D. Campbell & Co.,	Books, . . .	6	11	-	2	Fair,	Procure certificate; post time tables; guard set screws.	Complied.
Hall Bros., . . .	Machinery, . . .	4	-	-	1	Fair,	Procure certificate; post time table,	Complied.
T. Robinson, . . .	Furniture, . . .	5	-	-	-	Fair,	Guard saw,	Complied.
Standard Brass Co., . . .	Plumbers' supplies,	55	-	-	1	Good,	Post time table; guard set screws,	Complied.
J. A. McIsaac, . . .	House finish,	3	-	-	-	Fair,	Guard saw,	Complied.
CHELMSFORD.								
Chelmsford Foundry Co., . . .	Iron, . . .	90	-	-	-	Fair,	Guard set screws, saws and pulley,	Complied.
Silver & Gay, . . .	Machinery, . . .	19	-	-	-	Good,	Guard set screws, belts, saws and opening to stairway on first and second floors.	Complied.
Sugden Press Bagging Co.,	Oilpress cloth,	7	-	-	-	Fair,	Post time table; guard set screws,	Complied.
CONCORD.								
R. H. Damon, . . .	Woollen goods,	55	15	-	-	Good,	Post time tables; guard set screws,	-*
Boston Harness Co., . . .	Harness, . . .	103	9	-	-	Fair,	Guard set screws and shafting in stitching room; designate water-closet for females.	-*
EVERETT.								
Everett Cycle Co, . . .	Bicycles, . . .	35	-	-	-	Good,	Guard set screws and one side of fly wheel.	Complied.
Degnio Bros., . . .	Furniture, . . .	8	-	-	-	Poor,	Provide water-closets; rail outside stairs for tenants.	Complied.

* Recent orders.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
EVERETT — Concluded.								
American Clock Co., . . .	Clocks, . . .	3	3	-	-	Fair, .	Post time tables; guard set screws; provide water-closets and designate.	Complied.
City Custom Laundry Co., .	Laundry, . . .	1	1	-	-	Fair, .	Post time table; provide water-closet.	Complied.
Nathan F. Carruth & Co., .	Oils, . . .	4	-	-	-	Fair, .	Clean privy, . . .	Complied.
B. J. Richardson, . . .	Varnish and japans.	5	-	-	-	Fair, .	Clean privy, . . .	Complied.
Norton Iron Co., . . .	Iron, . . .	81	-	-	-	Fair, .	Guard set screws, . . .	Complied.
C. H. Bangs, . . .	Druggists' furniture.	48	-	-	-	Fair, .	Guard fly wheel, crank, belt, saw and opening.	Complied.
Boston Tube Bending Co., .	Iron bedsteads, .	24	-	-	-	Poor, .	Guard set screws; provide stairs from machine shop to foundry; provide water-closet.	Complied.
Everett Steam Laundry, . .	Laundry, . . .	4	4	-	-	Poor, .	Clean privies, . . .	Complied.
Cochrane Chemical Works, .	Chemicals, . . .	225	-	-	-	Fair, .	Post time table; guard set screws, .	Complied.
H. D. Cloyd, . . .	Preserves, . . .	4	2	-	-	Good, .	Post time table, . . .	Complied.
GROTON.								
Edwin H. Sampson, . . .	Leather board, .	21	4	-	-	Fair, .	Post time tables, . . .	Complied.
The Tileston & Hollingsworth Co.	Book paper, . .	27	13	-	-	Good, .	Post time tables, . . .	Complied.
Hollingsworth & Vose Co., .	Manila paper, .	23	4	-	-	Fair, .	Post time tables; guard belt, . .	Complied.

HUDSON.

Stove, Bills & Hawley,	Shoes, . . .	144	69	—	1	Good, . .	Guard set screws, . . .	Complied.
Millay Last Co., . .	Lasts, . . .	21	—	—	1	Fair, . .	Guard fly wheel and belt,	Complied.
F. Brigham & Co., . .	Shoes, . . .	142	75	—	—	Good, . .	Post time tables; guard set screws; new cable for small elevator.	Complied.
C. M. Brett,	Shoes, . . .	115	60	—	6	Fair, . .	Procure certificate; post time tables; guard set screws; provide additional water-closet for women, and designate.	Complied.
Thomas Taylor & Son,	Elastic web, . .	9	5	—	1	Good, . .	Procure certificate; post time tables; guard set screws.	Complied.
L. F. Jeffs, . . .	Shoes, . . .	89	39	—	—	Fair, . .	Guard set screws; new cable to elevator; designate water-closets.	Complied.
LOWELL.								
Pickering Knitting Co., . .	Knitted underwear,	27	114	1	11	Good, . .	Guard shafting in stitching room, saw and set screws.	Complied.
New England Bunting Co., . .	Bunting, . . .	15	20	—	—	Good, . .	Post time tables; guard fly wheel, crank, belt and set screws.	Complied.
Butterfield Printing and Binding Co.	Job printing and binding.	11	2	—	—	Fair, . .	Guard set screws and dynamo; designate water-closets.	Complied.
Lowell & Suburban Street Railway Co.	Electric power, . .	8	—	—	—	Good, . .	Guard part of fly wheels and circular saw in repair shop.	Complied.
Arthur P. Knapp,	Worsted yarns, . .	15	25	—	—	Fair, . .	Post time tables; guard set screws; keep stairway clear; provide gates for elevator well on each floor; designate water-closets.	Complied.
Middlesex Co., . . .	Woollen goods, . .	394	300	—	21	Good, . .	Post time tables; guard set screws and engine cranks; safety device for elevator.	Complied.
Appleton Co., . . .	Cottons and prints,	350	612	1	33	Fair, . .	Guard set screws, fly wheel, belt and saw; provide water-closet.	Complied.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LOWELL — <i>Concluded.</i>								
Woods, Sherwood & Co., . . .	Wire, . . .	66	4	—	1	Fair, . .	Post time table; guard set screws, .	Complied.
Consumers' Brewing Co., . . .	Beer, . . .	23	—	—	—	Fair, . .	Guard fly wheel and set screws; provide suitable water-closet.	Complied.
Brown Hosiery Co., . . .	Sweaters and hosiery.	6	1	—	—	Fair, . .	Post time table,	Complied.
Tremont & Suffolk Mills, . . .	Cotton cloth, . . .	880	1,091	—	82	Good, . .	Guard set screws, engine crank, driving and fly wheels, belt and openings; provide water-closet and safety device for elevator.	Complied.
Waukenhose Manufacturing Co.,	Hosiery, . . .	7	43	—	—	Good, . .	Post time table; guard set screws, .	Complied.
White Bros. & Co., . . .	Leather, . . .	277	—	—	1	Fair, . .	Procure certificate; guard set screws and portion of fly wheel.	Complied.
Knowles Scale Works, . . .	Scales, . . .	7	—	—	—	Fair, . .	Guard set screws,	Complied.
Lowell Manufacturing Co., . . .	Carpets, . . .	917	1,028	—	182	Good, . .	Guard set screws and dynamo room; new ropes for three elevators.	Complied.
Geo. L. Cady & Sons, . . .	Bicycles, . . .	4	—	—	—	Good, . .	Guard set screws,	Complied.
C. E. Austin, . . .	Organ and piano springs.	7	—	—	—	Fair, . .	Guard set screws,	Complied.
Sterling Mills, . . .	Dress goods, . . .	84	58	—	12	Good, . .	Post time table; guard set screws, .	Complied.
Hamilton Manufacturing Co., . . .	Cottons and prints, . . .	900	1,200	—	153	Good, . .	Procure certificates; guard set screws; keep door unlocked; safety device for one elevator.	Complied.

American Bolt Co., Robert Carruthers,	Nuts and bolts, Reeds and loom harness.	98 10	- -	- -	- -	Fair, Fair,	Guard set screws, Post time table; guard set screws,	Complied. Complied.
LITTLETON. Conant, Houghton & Co., Avery Chemical Co.,	Suspenders, Chemicals,	27 13	26 -	- -	- -	Fair, Fair,	Post time table; guard set screws, Guard set screws,	Complied. Complied.
LEXINGTON. M. H. Merriam,	Shoe finish,	9	34	-	4	Good,	Procure certificates; post time tables; guard set screws.	Complied.
MALDEN. Boston Rubber Shoe Co., National Steam Dye House, John Cochrane, Jr.,	Rubber shoes, Dyeing, Printing and dye- ing.	997 4 109	1,075 3 14	- - -	4+ - 6	Good, Poor, Fair,	Post time tables; guard set screws, Clean and designate privies, Procure certificates; post time tables; guard set screws.	Complied. Complied. Complied.
MELROSE. R. H. Sircom & Co.,	Women's skirts,	3	15	-	-	Fair,	Post time tables; guard set screws; provide additional water-closet, and designate.	Complied.
Melrose Journal,	Newspaper and job printing.	3	4	-	-	Fair,	Post time tables; guard set screws; provide additional water-closet, and designate.	Complied.
Melrose Reporter,	Newspaper and job printing.	5	2	-	-	Fair,	Post time tables; guard set screws; provide additional water-closet, and designate.	Complied.
G. E. Young Laundry Co.,	Laundry,	4	11	-	-	Good,	Guard set screws; designate water- closet.	Complied.
The Shepard Manufacturing Co.,	Silverware,	10	2	-	1	Fair,	Procure certificate; post time table; guard set screws; designate water- closets.	Complied.
Melrose Steam Laundry,	Laundry,	4	7	-	-	Fair,	Post time tables; guard set screws; clean and designate water-closets.	Complied.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
MEDFORD.								
H. C. Spear, . . .	Soda water and tonics.	5	—	—	—	Poor, .	Provide privy, . . .	Complied.
Medford Manufacturing Co., .	Felt goods, . .	28	6	—	1	Fair, .	Procure certificate; post time tables,	Complied.
MAYNARD.								
Assabet Manufacturing Co., .	Woollens, . .	604	329	4	27	Good, .	Guard set screws, . . .	Complied.
NORTH WILMINGTON.								
G. & E. G. Place, . . .	Leather, . .	60	—	—	—	Fair, .	Post time tables; guard elevator well on third floor; new cable to elevator; clean privy.	Complied.
Sylvester Carter, . . .	Lumber, . .	6	—	—	—	Fair, .	Guard saws, . . .	Complied.
NORTH READING.								
J. E. Turner, . . .	Wagons, . .	4	—	—	—	Fair, .	Guard set screws; rail stairway, .	—*
PEPPERELL.								
Leighton Bros., . . .	Shoes, . .	284	66	1	7	Good, .	Post time table; guard set screws and rolling machine; designate water-closets.	Complied.
Pepperell Card and Paper Co., .	Paper, . .	36	14	—	1	Good, .	Procure certificate; post time tables; guard set screws.	Complied.

Champion Card and Paper Co.,	Paper, . . .	51	16	—	1	Good, .	Procure certificate; post time tables; guard set screws	Complied.
Nashua River Paper Co.,	Paper, . . .	135	25	—	—	Fair, .	Post time tables; guard saws, set screws and fly wheels.	Complied.
READING.								
J. M. Cropley & Bro.,	Shoes, . . .	175	100	—	4	Good, .	Certificates for four minors; post time tables; guard set screws and fly wheel; provide self-closing gates to elevator well on each floor; designate water-closet	Complied.
Charles E. Damon & Co.,	Neckwear, . .	5	30	—	—	Good, .	Post time tables; designate water-closets.	Complied.
D. H. Kendall, . . .	House finish, .	13	—	—	—	Fair, .	Guard set screws; rail to stairway, Guard fly wheel and belt, . .	Complied.
Brennan, Gleason & White, .	Church organs, .	6	—	—	—	Fair, .	Post time tables; guard set screws and elevator well on second floor; designate water-closets.	Complied.
Welch-Brush Co., . . .	Shoes, . . .	24	23	—	—	Fair, .	Post time tables; guard set screws and elevator well on second floor; designate water-closets.	Complied.
E. B. Richardson, . . .	Shoes, . . .	75	65	—	1	Good, .	Procure certificate; post time tables; guard set screws.	Complied.
The Horton Manufacturing Co.,	Machinery and paper boxes.	35	16	—	—	Fair, .	Post time tables; guard set screws; designate water-closets.	Complied.
Hallet & Urann, . . .	Shoes, . . .	30	36	1	8	Fair, .	Procure certificates; post time tables; guard set screws and rolling machine.	Complied.
SOMERVILLE.								
M. W. Carr & Co., . . .	Jewelry, . . .	116	94	—	14	Good, .	Procure certificates; guard set screws.	Complied.
The Sprague & Hathaway Co.,	Picture frames, .	80	40	—	2	Good, .	Procure certificate; post time tables, Guard saws, . . .	Complied.
American Tube Works, . . .	Brass and copper tubes.	300	—	—	—	Good, .	Guard saws, . . .	Complied.

* Recent orders.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
SOMERVILLE — <i>Concluded.</i>								
Middlesex Bleach, Dye and Print Works.	Bleaching and dyeing.	183	32	—	—	Good.	Guard saws,	Complied.
Boston Lock Cover Box Co., .	Wooden boxes, .	15	—	—	—	Fair, .	Post time table; guard set screws and belts; rail around opening to stairway of basement; provide water-closet.	Complied.
John N. Ball,	Pasted shoe stock,	7	33	—	2	Fair, .	Procure certificate; guard set screws; clean and designate privies.	Complied.
Williams Table and Lumber Co.,	Tables,	14	—	—	—	Fair, .	Guard set screws, saws and elevator well on first floor; repair gates on second and third floors.	Complied.
H. M. Hillson & Co., . . .	Tinware,	20	—	—	1	Fair, .	Procure certificate; post time table; guard fly wheel, belt and set screws.	Complied.
Somerville Journal Co., . .	Newspaper and job printing.	29	11	1	1	Good, .	Procure certificates; guard fly wheel and set screws.	Complied.
I. H. Brown & Co.,	House finish, .	19	—	—	—	Fair, .	Post time table; guard belt on driving wheel.	Complied.
Somerville Citizen Publishing Co.	Newspaper and job printing.	6	4	—	—	Good, .	Post time tables; guard set screws; provide additional water-closet, and designate.	Complied.

Mrs. Jean White, . . .	Printing, . . .	21	6	-	-	Fair, . .	Post time tables; guard set screws and keys in printing presses; provide additional water-closet, and designate.	Complied.
P. Forg,	Hardware, . . .	31	1	-	1	Fair, . .	Post time table; guard set screws, saw and belt.	Complied.
T. F. Kenney,	Shoes,	13	12	-	-	Poor, . .	Guard set screws, belt on second floor and a portion of shafting in stitching room; post time tables; provide water-closet.	Complied.
L. V. Colahan,	Shoes,	30	20	-	-	Fair, . .	Guard set screws,	Complied.
The E. A. Vinton Shoe Co., . .	Boots and shoes, . .	32	23	-	1	Good, . .	Procure certificate; post time tables; guard set screws and portion of shafting in stitching room; designate water-closets.	Complied.
Timo. Reed,	Leather,	8	-	-	-	Poor, . .	Guard set screws, engine crank and fly wheel; clean privy.	Complied.
L. P. Benton,	Shoes,	24	17	-	-	Good, . .	Post time tables; guard set screws, Procure certificate; guard set screws and elevator well.	Complied.
A. E. Mann & Co.,	Shoes,	117	52	-	4	Fair, . .	Procure certificate; guard set screws and elevator well.	Complied.
S. W. Kimball,	Shoes,	45	30	-	1	Fair, . .	Designate water-closet; clean privy, Post time tables; guard set screws, dynamo and belt.	Complied.
M. F. Baker,	Shoes,	13	12	-	-	Fair, . .	Post time tables; guard set screws, dynamo and belt.	Complied.
Henry Boyce & Son,	Pasted shoe stock, . .	16	8	-	1	Fair, . .	Procure certificate,	Complied.
O. W. Houghton & Co., . . .	House finish,	3	-	-	-	Fair, . .	Guard set screws and saw, . . .	Complied.
W. P. Fletcher,	Paper boxes,	16	26	-	-	Good, . .	Post time tables; guard set screws,	Complied.
SHIRLEY.								
The C. A. Edgerton Manuf'g Co., . .	Suspenders,	84	93	-	21	Good, . .	Post time tables; guard set screws,	Complied.
Sampson Cordage Works,	Cord,	57	59	-	9	Good, . .	Post time tables; guard set screws,	Complied.

DISTRICT No. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
SUDBURY.								
Hurlbut Rogers Machine Co.,	Machinery, . .	6	—	—	—	Fair, .	Guard set screws, . . .	Complied.
STOWE.								
C. W. & A. D. Gleason, . .	Woollens, . .	56	20	—	3	Good, .	Post time tables; guard set screws,	Complied.
TOWNSEND.								
Spaulding Bros. Co., . .	Leather board, .	42	10	—	2	Fair, .	Procure certificates; post time tables,	Complied.
E. W. Seaver, . . .	Tubs and pails, .	11	1	—	2	Fair, .	Certificates for two minors; post time tables.	Complied.
WALTHAM.								
Mechanics Shirt Co., . .	Shirts, . .	2	46	—	1	Good, .	Procure certificate; post time tables; guard shafting, belt, set screws and outside opening.	Complied.
United States Watch Co., . .								
A. J. Logan & Co., . .	Watches, . .	52	25	—	1	Good, .	Certificate for one minor, . . .	Complied.
Waltham Screw Co., . .	Watch tools, .	3	—	—	—	Fair, .	Guard set screws, . . .	Complied.
	Screws, . .	5	1	—	—	Fair, .	Post time table; guard set screws; provide suitable water-closet.	Complied.
Fred C. Gifford, . . .								
Boston Manufacturing Co., .	Machine tools, .	5	—	—	—	Fair, .	Guard set screws, . . .	Complied.
	Dress goods, .	501	762	3	56	Good, .	Post time tables; guard set screws and openings; rail to landing.	Complied.
American Waltham Watch Co.,	Watches, . .	791	982	—	6	Good, .	Post time table; guard set screws, .	Complied.

WOBURN. Russell Counter Co., . . .	Pasted shoe stock, . . .	80	75	—	11	Poor, . .	Procure certificate; guard rolling machine and set screws; clean privy; provide two additional privies.	Complied.
Woburn Steam Laundry, . . .	Laundry and clothing.	7	108	—	—	Fair, . .	Guard belt; provide water-closet, and designate.	Complied.
E. Rollins, Jr., . . .	Pasted shoe stock, . . .	8	22	—	—	Poor, . .	Post time tables; guard set screws; rolling machine and elevator well; rail to stairway; provide privies.	Complied.
N. J. Simonds, agent, . . .	Pasted shoe stock, . . .	6	3	—	2	Poor, . .	Procure certificates; post time tables; guard fly wheel, belt and set screws; provide privies.	Complied.
J. B. Murray & Co., . . .	Pasted shoe stock, . . .	30	35	—	1	Good, . .	Guard set screws,	Complied.
N. W. Eaton & Co., . . .	Pasted shoe stock, . . .	20	35	—	1	Good, . .	Guard rolling machine,	Complied.
Beader, Adamson & Co., . . .	Glue,	74	—	—	—	Fair, . .	Guard set screws; clean privies; safety device for elevator.	Complied.
C. G. Lund & Co., . . .	Leather,	70	—	—	—	Poor, . .	Guard set screws; clean and ventilate privies.	Complied.
J. O. Cummings, . . .	Leather,	14	—	—	—	Poor, . .	Guard belts, stairway and openings; clean and repair privy.	Complied.
C. J. Levers,	Pasted shoe stock, . . .	5	5	—	—	Poor, . .	Post time tables; provide additional privy, and designate.	Complied.
W. P. Fox & Son, . . .	Leather,	50	—	—	—	Fair, . .	Guard set screws and belt; clean privy.	Complied.
J. B. Murray & Co., . . .	Leather,	62	24	—	—	Fair, . .	New cable to elevator,	Complied.
James Robertson, . . .	Leather,	27	—	—	—	Fair, . .	Post time table; guard stair openings; rail to stairway.	Complied.
James Skinner & Co., . . .	Leather,	150	—	—	—	Fair, . .	Post time table; guard two elevator wells on each floor; clean privies; cable for two elevators.	Complied.

DISTRICT NO. 1 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
WOBBURN — Concluded.								
W. P. Fox & Son,	Leather,	32	—	—	—	Fair,	Post time table; guard elevator well on second floor.	Complied.
J. H. Carr,	Pasted shoe stock,	3	7	—	—	Poor,	Post time table; clean privy; provide additional privy, and designate.	Complied.
Bridge, Marston & Co.,	Neckwear,	—	22	—	—	Good,	Post time tables,	Complied.
American Bottling Co,	Mineral and soda water.	6	—	—	1	Fair,	Procure certificate; post time table; guard set screws.	Complied.
E. Cummings & Co.,	Leather,	96	—	—	—	Fair,	Clean privies,	Complied.
E. C. Cottle & Son,	Leather,	76	—	—	—	Fair,	Post time table; clean privies,	Complied.
Middlesex Leather Co.,	Leather,	125	—	—	1	Fair,	Procure certificate; post time table; guard set screws; clean privies.	Complied.
T. Calnan,	Pasted shoe stock,	13	29	—	2	Fair,	Procure certificates; post time tables; guard set screws.	Complied.
Merrimack Chemical Co.,	Chemicals,	99	1	1	1	Fair,	Procure certificates; post time tables; guard set screws and crank of alum engine; clean privies.	Complied.
The News,	Newspaper and job printing.	4	2	—	—	Good,	Guard set screws; designate water-closets.	Complied.
W. C. Kenney,	Leather,	23	—	—	—	Fair,	Guard set screws and belts on second floor; provide privy.	Complied.
Woburn Iron Foundry,	Iron,	14	—	—	—	Fair,	Guard set screws and saw,	Complied.

J. F. Buel, . . .	Machinery, . . .	4	-	-	Fair, .	Guard saw, .	Complied.
J. H. Carr, . . .	Pasted shoe stock, .	5	-	-	Fair, .	Post time tables, .	Complied.
A. J. Simonson, . . .	House finish, .	6	-	-	Fair, .	Guard set screws, saws, belts and opening; provide blowers for planing and moulding machines.	-*
Barker Lumber Co., . . .	House finish, .	21	-	-	Fair, .	Guard set screws, saws, fly wheel and driving wheel; rail opening to stairway and stairway.	-*
WINCHESTER.							
L. M. Hall, . . .	School furniture, .	20	-	-	Good, .	Guard set screws and saws, .	Complied.
Beggs & Cobb, . . .	Leather, . . .	350	-	-	Fair, .	Guard fly wheel, crank, belt and set screws.	Complied.
WAKEFIELD.							
Smith & Anthony Co., . . .	Stoves, . . .	175	-	-	Fair, .	Guard set screws; new cable for large elevator; clean privies.	Complied.
L. B. Evans' Son, . . .	Shoes, . . .	38	-	-	Good, .	Guard fly wheel, two pulleys and belt in basement; guard set screws; procure certificate.	Complied.
Thomas Emerson's Sons, . . .	Shoes, . . .	60	-	-	Fair, .	Procure certificate, . . .	Complied.
Wakefield Reed Chain Co., . . .	Reed chairs, . . .	57	-	-	Fair, .	Post time table; guard saw, .	Complied.
Ideal Manufacturing Co., . . .	Cotton underwear, . . .	1	-	-	Good, .	Post time tables, . . .	Complied.
Harvard Knitting Mill, . . .	Knitted underwear, . . .	5	-	-	Good, .	Procure certificates; guard set screws.	Complied.
Lead-lined Iron Pipe Co., . . .	Lead-lined iron pipe.	18	-	-	Fair, .	Post time table; guard set screws; clean privy.	Complied.
WESTFORD.							
Geo. C. Moore, . . .	Carpet yarns, . . .	28	4	4	Good, .	Post time table; guard set screws and belt.	Complied.

* Recent order.

DISTRICT No. 1 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
WESTFORD — <i>Concluded.</i>								
Abbott & Co.,	Worsted and carpet yarns.	77	103	—	24	Fair, .	Post time table; guard set screws, elevator well and opening in store-house; new cable for elevator.	Complied.
Abbott & Co.,	Worsted and carpet yarns.	84	81	—	18	Fair, .	Post time tables; guard set screws and belt on driving wheel of water power.	Complied.
WAYLAND.								
Bent & Stevens,	Shoes,	70	23	—	1	Good, .	Procure certificate; post time tables; guard set screws; new cable for elevator.	Complied.
N. A. Chessman & Co.,	Shoes,	16	3	—	—	Fair, .	Post time tables; guard set screws and rolling machine; provide water-closet, and designate.	Complied
Charles W. Dean,	Shoes,	108	12	—	—	Fair, .	Post time tables; guard fly wheel, set screws and shafting in stitching room; clean privies.	Complied
N. C. Griffin,	Shoes,	85	10	—	6	Poor, .	Post time tables; guard set screws; clean privies, and designate.	Complied.
O. C. Ewings & Co.,	Shoes,	13	4	—	—	Poor, .	Post time tables; guard shafting in stitching room and opening; clean privy; provide additional privy.	Complied.

F. A. Howe,	.	.	.	.	Shoes, . . .	9	1	-	-	Fair, .	Guard shafting in stitching room and rolling machine.	Complied.
WESTON.												
Parker, Freeman & Co.,	.	.	.	.	Door and window screens.	6	-	-	-	Fair, .	Guard saws, . . .	Complied.
Ralph Kenney & Co.,	.	.	.	.	School furniture, .	16	-	-	-	Fair, .	Guard saws; place railing around opening on third floor; provide blower for planing machine.	Complied.

REPORT OF INSPECTOR HALSTRICK.

The observance of the law relative to factories and workshops has been quite general, except in a few instances in the city of Boston, where it was found that the law prescribing fifty-eight hours as a week's work for women and minors was being violated, and in such places proprietors claimed that the working of overtime was entirely optional with the employees, as it was to their pecuniary advantage to work extra hours. But the practice being contrary to the law, the proprietors were ordered to discontinue it.

In reference to notice of accidents to be sent to the district police under the provisions of section 8, chapter 481, Acts of 1894, as follows: "All manufacturers, manufacturing corporations and proprietors of mercantile establishments shall forthwith send to the chief of the district police a written notice of any accident to an employee while at work in any factory, manufacturing or mercantile establishment operated by them, whenever the accident results in the death of said employee or causes bodily injury of such a nature as to prevent the person injured from returning to his work within four days after the occurrence of the accident." Since this law includes all elevator accidents occurring in the city of Boston, I have had occasion to investigate many such accidents. The majority of them have proved fatal, carelessness in operating the elevators being the prime cause in the majority of cases of persons injured. Most of the elevators in my district are used for freight only, and are so designated; have been provided with some device whereby the car is held in the event of an accident to the hoisting rope, and the openings to the well-holes have been provided with automatic gates or bars. All accidents are promptly reported to the chief, in accordance with the requirements of the above act, with the exception that those occurring in the city of Boston, in mercantile establishments especially, have not in all cases been reported without the owners first being reminded of said law, they presumably not having fully informed themselves as to its provisions, consequently manifest no spirit of obedience thereto.

The law relating to the employment of custodians of elevators (section 32, chapter 508, Acts of 1894, wherein it is provided that no person, firm or corporation shall employ or permit any person under fifteen years of age to have the care or operation of any elevator) was not in all cases complied with, as one boy under the prescribed age was found running a passenger elevator. He was of course immediately discharged. The party employing him was entirely ignorant of the law.

The law relative to the employment of children has been observed. The decrease during the past year in the number of children employed under the age of fourteen years is manifestly greater than that of the preceding year.

The law in regard to the sanitation of factories and workshops is strictly enforced, and the general condition of factories, from a sanitary point of view, is much improved.

The observance of the requirements of the law relative to the posting of legal time notices of the hours of labor for women and minors, the guarding of dangerous machinery, locking of doors of any building wherein operatives are employed during the hours of labor, etc., has been quite general; and I am pleased to say, in conclusion, that the requirements of the various factory laws are usually promptly complied with.

Inspections made,	595
Orders issued,	245
Compliances,	245
Children between thirteen and fourteen years, . .	13
Children between fourteen and sixteen years, . .	1,112
Males,	20,345
Females,	16,530
Total males and females,	38,000

DISTRICT No. 2, JOSEPH HALSTRICK, Inspector.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Under 14.			14 to 16.				
		Males.	Females.						
BOSTON.									
J. G. Charlton & Co.,.	Laundry, .	2	23	—	—	Good, .	Post time notice,	Complied.	
Calumet Laundry,	Laundry, .	4	16	—	—	Good, .	Post time notice,	Complied.	
The Eastburn Press, .	Printing, .	8	—	—	—	Good, .	Post time notice,	Complied.	
Weiss & Schmidt, .	Hats and caps, .	2	4	—	1	Good, .	Post time notice,	Complied.	
M. C. Hood, .	Perfumery, .	2	1	—	—	Good, .	Post time notice,	Complied.	
Clifton Manufacturing Co.,	Rubber clothing, .	27	141	—	—	Good, .	Post time notices,	Complied.	
Pond Rubber Co.,.	Gossamers, .	4	8	—	—	Good, .	Post time notice,	Complied.	
Norfolk Rubber Co., .	Gossamers, .	9	25	—	—	Good, .	Post time notices,	Complied.	
Gossamer Rubber Co.,	Gossamers, .	14	150	—	—	Good, .	Post time notices,	Complied.	
John B. Babcock, .	Straw and felt hats, .	25	50	—	—	Good, .	Post time notices,	Complied.	
Jameson & Son, .	Straw and felt hats, .	10	55	—	—	Good, .	Post time notices,	Complied.	
B Wilkins & Co.,	Printing, .	12	3	—	—	Good, .	Post time notice,	Complied.	
W. S. Best & Co.,	Printing, .	18	2	—	—	Good, .	Post time notice,	Complied.	
F. W. Imberg, .	Bookbinding, .	3	9	—	1	Good, .	Post time notice,	Complied.	
W. C. Stahl, .	Confectionery, .	2	2	—	—	Fair, .	Post time notice,	Complied.	
J. L. Fairbanks, .	Bookbinding, .	6	6	—	—	Good, .	Post time notice,	Complied.	
Haskell Publishing Co.,	Publishing, .	5	1	—	—	Good, .	Post time notice,	Complied.	
Northern Electric Co.,	Electric lamps, .	2	8	—	—	Good, .	Post time notice,	Complied.	
Blanchard & Watts, .	Engraving, .	15	1	1	—	Good, .	Post time notice; certificate for minors.	Complied.	
B. F. Sturtevant & Co.,	Engines and blow-ers.	285	—	—	—	Good, .	Post time notices,	Complied.	

Bogart Custom Laundry, Stone & Forsyth, . . .	Laundry, Printing, . . .	5 10	6 10	- -	- -	Good, Fair, . . .	Post time notice, Post time notice; provide extra water-closet.	. . . .	Complied. Complied.
C. H. White & Co., . . .	Printing, Pamphlet binding, Printing, . . .	9 3	3 10	- -	- -	Good, Good, . . .	Post time notice, Post time notice, . . .	. . . .	Complied. Complied.
Nowlan Mailing Co., . . .	Printing, . . .	25	10	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Skinner, Bartlett & Co., . . .	Printing, . . .	125	50	-	-	Good, . . .	Certificate for minors, . . .	. . .	Complied.
Collins Press Corporation, Ziegler Electric Co., . . .	Electric instru- ments.	18	-	-	-	Good, . . .	Certificate for minors; post time notice.	. . .	Complied.
Macdonald & Sons, . . .	Bookbinding, . . .	35	15	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Macdonald & Allen, . . .	Bookbinding, . . .	12	4	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Morse Bros., . . .	Paper boxes, . . .	2	18	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Elliott Paper Box Co., . . .	Paper boxes, . . .	3	17	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Armstrong Manufacturing Co., . . .	Effervescent gran- ules.	2	2	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Apple & Co., . . .	Wrappers, . . .	1	9	-	-	Good, . . .	Post time notices, . . .	. . .	Complied.
H. Krikorian, . . .	Confectionery, . . .	10	20	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
T. Y. Crowell & Co., . . .	Publishing and bookbinding.	49	86	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
F. Eeles & Co, . . .	Bookbinding, . . .	25	35	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
H. Leonard & Co., . . .	Surcingle, . . .	4	6	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
C. L. Ireson, . . .	Leather belts, . . .	11	2	-	-	Fair, . . .	Post time notice, . . .	. . .	Complied.
S. W. Fowle & Son, . . .	Medicines, . . .	2	2	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
"Wool and Cotton Reporter," . . .	Publishing, . . .	25	30	-	-	Good, . . .	Certificates for minors; designate water-closets; post time notices.	. . .	Complied.
A. J. Doyle, . . .	Paper ruling, . . .	2	2	-	-	Fair, . . .	Certificates for minors, . . .	. . .	Complied.
Smith-Foster Shoe Co, . . .	Shoes, . . .	60	20	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
N. E. Newspaper Union, . . .	Publishing, . . .	17	18	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
C. S. Binner & Co, . . .	Printing and book- binding.	19	10	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.
Blodgett Bros. Co, . . .	Electricians, . . .	9	-	-	-	Good, . . .	Post time notice, . . .	. . .	Complied.

DISTRICT No. 2 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.				
		Males.	Females.					
BOSTON — <i>Continued.</i>								
J. W. Norcross,	Ladies' bustles, . . .	1	1	—	Fair, . . .	Post time notice, . . .	Complied.	
T. E. Ash,	Printing,	1	1	—	Fair, . . .	Post time notice, . . .	Complied.	
Estate A. J. Smallage, . . .	Ladies' skirts, . . .	1	11	—	Good, . . .	Post time notice, . . .	Complied.	
Horton & Wade,	Shoe heels,	3	12	—	Good, . . .	Post time notice, . . .	Complied.	
B. Fuller,	Shoe trimmings, . . .	3	12	—	Good, . . .	Post time notice, . . .	Complied.	
C. H. Crane & Co.,	Shoes,	38	22	—	Good, . . .	Post time notice, . . .	Complied.	
Little, Maxwell & Co., . . .	Boots and shoes, . . .	40	20	—	Good, . . .	Post time notice, . . .	Complied.	
Fish & Libby,	Printing,	9	5	—	Fair, . . .	Provide extra water-closet; post time notice.	Complied.	
G. G. Little,	Printing,	4	3	1	Good, . . .	Post time notice, . . .	Complied.	
Robert Burlen,	Bookbinding,	15	14	—	Good, . . .	Post time notice, . . .	Complied.	
Atlantic Paper Box Co., . . .	Paper boxes,	1	2	—	Good, . . .	Post time notice, . . .	Complied.	
Stowe, Bills & Hawley, . . .	Shoes,	175	100	—	Good, . . .	Guard shafting; designate water-closets; post time notices.	Complied.	
Evens Hennebury,	Printing,	7	1	—	Good, . . .	Post time notice, . . .	Complied.	
Library Bureau,	Cards,	3	12	—	Good, . . .	Post time notice, . . .	Complied.	
Boston Ferrule Co.,	Ferrules,	2	5	—	Fair, . . .	Post time notice, . . .	Complied.	
National Heeling Machine Co., . .	Machines,	23	2	—	Good, . . .	Post time notice, . . .	Complied.	
Jordan, Marsh & Co.,	Dry goods,	1,450	1,450	275	Good, . . .	Guard fly wheel and cranks; provide extension oil cups; post time notices in the workshops.	Complied.	

Lux Engraving Co., . . .	Engraving and printing.	9	1	—	1	Fair, .	Certificate for minors, . . .	Complied.
Excelsior Laundry, . . .	Laundry, . . .	12	26	—	—	Good, .	Guard gearing to collar and cuff ironer; post time notices.	Complied.
C. H. Heintzmann, . . .	Printing, . . .	38	12	—	—	Good, .	Post time notice, . . .	Complied.
American Health Supply Co., . . .	Health food, . . .	7	5	—	—	Good, .	Pay employees weekly, . . .	Complied.
The Holmes Co., . . .	Athletic knit goods, . . .	6	49	—	—	Good, .	Post time notice, . . .	Complied.
John P. Horner, . . .	Corsets and waists, . . .	—	9	—	—	Good, .	Post time notice, . . .	—
Harvard Rubber Co., . . .	Mackintoshes, . . .	2	1	—	—	Good, .	Post time notice, . . .	—
F. H. Wheelock, . . .	Waists and aprons, . . .	1	24	—	—	Good, .	Post time notice; guard shafting, . . .	Complied.
Zimmerman & Co., . . .	Small wares, . . .	1	5	—	—	Fair, .	Post time notice, . . .	Complied.
Hub Wrapper Manuf'g Co., . . .	Ladies' wrappers, . . .	10	9	—	—	Fair, .	Post time notice, . . .	Complied.
Apple & Co., . . .	Wrappers, . . .	5	3	—	—	Good, .	Post time notice, . . .	Complied.
J. L. Bosch, . . .	Hats and caps, . . .	2	12	—	—	Good, .	Post time notice, . . .	Complied.
Bergheim Bros., . . .	Neckwear, . . .	7	12	—	—	Good, .	Post time notice, . . .	Complied.
Kingston Knitting Co., . . .	Athletic garments, . . .	15	65	—	—	Good, .	Post time notice, . . .	Complied.
Richardson, Howe, Lovejoy & Co., . . .	Ladies' wrappers, . . .	13	12	—	—	Good, .	Post time notice, . . .	Complied.
G. W. Becker & Co., . . .	Juvenile clothing, . . .	5	29	—	—	Good, .	Post time notice; certificates for minors.	Complied.
Sterling Knit Goods Co., . . .	Knit goods, . . .	15	8	—	—	Good, .	Post time notice, . . .	Complied.
Wm. Rosnosky, . . .	Hats and caps, . . .	1	14	—	—	Good, .	Post time notice, . . .	Complied.
Globe Wrapper Co., . . .	Ladies' wrappers, . . .	—	12	—	—	Fair, .	Designate water-closet; post time notice.	Complied.
Boston Cloak Co., . . .	Ladies' cloaks, . . .	3	4	—	—	Fair, .	Designate water-closets; post time notice.	Complied.
M. I. Cohen, . . .	Cloth caps, . . .	5	3	—	—	Fair, .	Designate water-closets; post time notice.	Complied.
Rosenfield & Brush, . . .	Cloth caps, . . .	1	9	—	—	Fair, .	Certificate for minors; designate water-closets; post time notice.	Complied.
Sharaf Bros., . . .	Neckwear, . . .	2	12	—	—	Fair, .	Post time notice, . . .	Complied.
A. Slutzki, . . .	Ladies' wrappers, . . .	20	3	—	—	Good, .	Post time notice, . . .	Complied.
Smith, Carter & Conner, . . .	Clothing, . . .			—	—			

DISTRICT No. 2 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14. 14 to 16.			
BOSTON — Continued.							
Freiman Preserving Co., .	Bottling, .	4	1	—	Bad, .	Post time notice, .	Complied.
Sanger & Bosch, .	Cloth caps, .	17	16	—	Good, .	Post time notice, .	Complied.
Clark & Kaufman, .	Bags and pocket-books.	6	20	—	Good, .	Post time notice, .	Complied.
Peerless Hose Supporter Co., .	Hose supporters, .	4	3	—	Fair, .	Designate water-closet; post time notice.	Complied.
John Lawrence, .	Tailoring, .	1	3	—	Fair, .	Post time notice, .	Complied.
S. A. & H. Myers & Co., .	Children's clothing, .	5	5	—	Good, .	Post time notice, .	Complied.
W. H. Keeden Printing Co., .	Printing, .	9	1	—	Good, .	Post time notice, .	Complied.
Geo. A. Sanford, .	Printing, .	5	1	—	Good, .	Post time notice, .	Complied.
Alexander & Son, .	Cloth caps, .	18	14	—	Good, .	Post time notice, .	Complied.
N. E. Wrapper Co., .	Ladies' wrappers, .	2	35	—	Good, .	Post time notice, .	Complied.
W. H. Knight, .	Bookbinding, .	5	1	—	Good, .	Certificate for minor, .	Complied.
W. A. Orcutt, .	Book lettering, .	2	3	—	Good, .	Post time notice, .	Complied.
The Everett Press Co., .	Printing, .	13	12	—	Good, .	Post time notice, .	Complied.
Samuel Ward Co., .	Stationery, .	47	28	—	Good, .	Certificate for minor, .	Complied.
Cornhill Printing Co., .	Printing, .	10	6	—	Good, .	Post time notice, .	Complied.
L. Wallace, .	Paper ruling, .	4	8	—	Good, .	Post time notice, .	Complied.
H. M. Bradstreet, .	Neckwear, .	—	4	—	Good, .	Post time notice, .	Complied.
Shaw & Kaiser, .	Cloth caps, .	12	12	—	Fair, .	Designate water-closets; post time notice.	Complied.
Excelsior Umbrella Manuf'g Co., .	Umbrellas, .	20	45	—	Good, .	Post time notice, .	Complied.

F. W. Wesner,	7	10	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
H. J. Hancock,	8	2	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
A. E. Martell,	3	1	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
F. W. Nash,	5	4	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Boston Bonnet Frame Co.,	2	15	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
F. W. Mills Manufacturing Co.,	3	3	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Avon Bleachery,	3	3	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
J. P. Lozowski,	2	1	-	1 Good,	Certificate for minor; post time notice, . . . . .	. . . . .	Completed.
P. B. Sanford,	5	2	-	1 Good,	Post time notice, . . . . .	. . . . .	Completed.
True Flag,	2	3	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
L. E. Cowles & Co.,	3	-	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
E. E. Warren,	3	-	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Bailey & Weston,	1	1	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
W. C. Wood Engraving Co.,	6	6	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Bedford Manufacturing Co.,	6	34	-	1 Fair,	Designate water-closets, . . . . .	. . . . .	Completed.
Standard Overall Manuf'g Co.,	6	12	-	Fair,	Post time notice, . . . . .	. . . . .	Completed.
C. N. Fowler,	1	4	-	Fair,	Post time notice, . . . . .	. . . . .	Completed.
Universalist Publishing Co.,	3	7	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Hartford Bottling Co.,	3	3	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
D. Harris,	26	19	-	2 Fair,	Certificate for minors, . . . . .	. . . . .	Completed.
L. Gastain,	13	12	-	2 Fair,	Certificate for minors, . . . . .	. . . . .	Completed.
Bay State Coat Co.,	1	2	-	Fair,	Post time notice, . . . . .	. . . . .	Completed.
Hoffman Bros.,	15	5	-	Fair,	Post time notice, . . . . .	. . . . .	Completed.
Abrahams & Calish,	25	25	-	Fair,	Post time notice, . . . . .	. . . . .	Completed.
Wm. Potter, Jr.,	4	1	-	2 Good,	Certificate for minors, . . . . .	. . . . .	Completed.
Joel Goldthwait & Co.,	6	20	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
G. F. Taylor,	1	2	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
M. Tigner,	15	10	-	Good,	Post time notice, . . . . .	. . . . .	Completed.
Spirit of the Hub,	1	4	-	Good,	Post time notice, . . . . .	. . . . .	Completed.

DISTRICT No. 2 — Continued.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.		Females.	Under 14.				14 to 16.
BOSTON — Concluded.									
H. H. Cotton,	Carpets,	10	2	—	—	Good,	Post time notice,	Complied.	
N. E. Piano Co.,	Pianos,	275	25	—	—	Good,	Weekly payments to employees,	Complied.	
The Republic Publishing Co.,	Publishing,	9	8	—	—	Good,	Post time notice,	Complied.	
Commercial Bulletin,	Publishing,	7	3	—	—	Good,	Post time notice,	Complied.	
Old South Printing Co.,	Printing,	6	7	—	2	Fair,	Certificates for minors; post time table.	Complied.	
R. Carrington,	Bookbinding,	1	3	—	—	Fair,	Post time notice,	Complied.	
Watson & Gorrell,	Printing,	3	—	—	1	Fair,	Certificate for minor,	Complied.	
C. M. A. Twitchell & Co.,	Printing,	5	2	—	1	Fair,	Certificate for minor; post time notice.	Complied.	
A. J. Lloyd,	Eyeglass cases,	9	20	1	2	Fair,	Certificates for minors; post time notice; designate water-closets.	Complied.	
Henry Kray,	Fancy goods,	5	35	—	5	Fair,	Certificates for minors,	Complied.	
Wm. R. Hand,	Hats,	2	2	—	1	Good,	Certificate for minor; post time notice.	Complied.	
J. B. Humphry,	Diamond cutter,	6	—	—	—	Good,	Post time notice,	Complied.	
The Hub Shirt Co.,	Shirts,	4	14	—	—	Good,	Post time notice,	Complied.	
W. E. Fletcher,	Printing,	5	—	—	1	Good,	Certificate for minor,	Complied.	
O. A. Jenkins & Co.,	Furrier,	—	6	—	—	Good,	Post time notice,	Complied.	
Crowell's Bleachery,	Bleachery,	—	5	—	—	Good,	Post time notice,	Complied.	
W. E. FitzGerald & Co.,	Steel plate printing,	6	6	—	—	Good,	Post time notice,	Complied.	

A. Lowman,	Tailoring,	7	2	-	-	Good,	Post time notice,	.	Completed.
H. H. Tuttle & Co.,	Shoe repairing,	12	1	-	-	Good,	Post time notice,	.	Completed.
C. N. Carter,	Cloaks and furs,	3	32	-	-	Good,	Post time notice,	.	Completed.
Wolff & Ulman,	Furs,	5	1	-	-	Fair,	Post time notice,	.	Completed.
Lehr & Klopot,	Gloves,	12	20	-	-	Good,	Post time notice,	.	Completed.
Thos. O'Callahan,	Carpets,	28	15	-	-	Good,	Post time notice,	.	Completed.
C. W. Page,	Furrier,	3	7	-	-	Good,	Post time notice,	.	Completed.
John Cashman & Co.,	Printing,	26	14	-	-	Good,	Post time notice,	.	Completed.
S. P. Curtis,	Knit goods,	2	10	-	-	Good,	Post time notice,	.	Completed.
J. A. Sevey,	Whalebone,	5	2	-	-	Fair,	Post time notice,	.	Completed.
C. H. Housman,	Jewelry cases,	12	6	-	-	Good,	Certificate for minor; designate water-closets; post time notice.	.	Completed.
G. W. Capen & Co.,	Fancy goods,	1	11	-	-	Good,	Certificate for minor,	.	Completed.
E. E. Leach & Co.,	Mackintoshes,	2	12	-	-	Good,	Post time notice,	.	Completed.
Macleod & Wallis,	Millinery,	-	4	-	-	Good,	Post time notice,	.	Completed.
I. H. Goldsmith,	Cigars,	9	1	-	-	Fair,	Post time notice,	.	Completed.
B. Spinoza,	Cigars,	25	6	-	-	Fair,	Post time notice,	.	Completed.
Goodman Bros.,	Ladies' underwear,	2	4	-	-	Fair,	Post time notice,	.	Completed.
FRANKLIN.									
Sentinel Publishing Co.,	Publishing,	5	1	-	-	Good,	Post time notice,	.	Completed.
Waite's Felting Co.,	Felting,	34	1	-	-	Good,	Post time notices,	.	Completed.
Singleton Worsted Co.,	White worsted,	34	6	-	-	Good,	Certificate for minor,	.	Completed.
Franklin Cotton Manuf'g Co.,	Twine,	13	20	-	-	Good,	Certificates for minors,	.	Completed.
FRAMINGHAM.									
Bay State Manufacturing Co.,	Leather novelties,	12	2	-	-	Good,	Post time notice,	.	Completed.
Gregory, Shaw & Co.,	Boots and shoes,	450	70	-	-	Good,	Certificates for minors,	.	Completed.
HOPKINTON.									
Crooks, Root & Co.,	Paper boxes,	9	4	-	-	Good,	Certificate for minor,	.	Completed.

DISTRICT NO. 2—*Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
HOLLISTON								
C. F. Driscoll,	Boots and shoes, .	35	5	—	—	Good, .	Post time notice; cover set screws, .	Complied.
John Clancy,	Boots and shoes, .	51	9	—	2	Good, .	Post time notices; certificates for minors, .	Complied.
Z. Talbot,	Tacks,	18	2	—	—	Good, .	Post time notice,	Complied.
MARLBOROUGH								
Rice & Hutchins, Cotton Ave, .	Shoes,	280	150	—	18	Good, .	Certificates for minors,	Complied.
Rice & Hutchins, Middlesex, .	Shoes,	162	71	—	4	Good, .	Certificates for minors,	Complied.
Chase, Merritt & Co,	Shoes,	150	50	—	9	Good, .	Certificates for minors,	Complied.
O'Connell & Sons,	Shoes,	120	50	—	3	Good, .	Certificates for minors,	Complied.
Bryan, Marsh Co.,	Electrical goods, .	45	30	1	4	Good, .	Certificates for minors,	Complied.
MILFORD.								
Milford Shoe Co., No. 1, . . .	Shoes,	111	64	—	4	Good, .	Guard belt to counter shaft, . .	Complied.
Eastman & Hobart,	Paper boxes, . . .	5	20	—	1	Good, .	Guard belt to staying machine, .	Complied.
Clapp, Huckins & Temple, . .	Shoes,	225	75	—	6	Good, .	Certificates for minors,	Complied.
T. P. Wilkinson,	Straw hats, . . .	25	75	—	—	Good, .	Post time notice,	Complied.
MEDWAY.								
Medway Boot and Shoe Co., . .	Boots and shoes, .	130	40	—	2	Good, .	Certificates for minors,	Complied.

MILLS.

Clicquot Club Bottling,

Bottlers, . . .	10	3	—	2	Good, . .	Certificates for minors; post time notice.	Complied.
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NATICK.

J. Hemmerdinger, . .

Littlefield & Saunders, . .

H. Harwood & Sons, . .

B. M. Brennen, . .

N. Cooper, . .

Clothing, . . .	20	20	—	—	Good, . .	Guard shafting; post time notice, .	Complied.
Shoes, . . .	9	3	—	—	Good, . .	Guard shafting, . . .	Complied.
Base balls, . . .	15	10	—	—	Good, . .	Post time notice, . . .	Complied.
Boots and shoes, . .	36	4	—	—	Good, . .	Guard shafting, . . .	Complied.
Shirts, . . .	2	35	—	1	Good, . .	Certificate for minor; post time notices.	Complied.

Clark & Grove, . .

Shoes, . . .	15	9	—	1	Good, . .	Guard shafting; certificate for minor; post time notices.	Complied.
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W. M. Bruce & Sons, . .

Sheldon Bros., . .

S. A. H. Myers & Co., . .

John Schneider, . .

Wooden boxes, . .	10	—	—	—	Good, . .	Guard pulley and belt, . . .	Complied.
Shoes, . . .	23	7	—	—	Good, . .	Guard driving pulley, . . .	Complied.
Tailoring, . . .	13	11	—	—	Fair, . .	Post time notice, . . .	Complied.
Shoes, . . .	17	3	—	—	Good, . .	Post time notice, . . .	Complied.

NEEDHAM.

Wm. Carter & Co., . .

Moseley & Co, . .

Wm. Roper, . .

Joseph Thorpe, . .

Knit goods, . . .	35	45	—	8	Good, . .	Post time notice, . . .	Complied.
Knit goods, . . .	5	30	—	4	Good, . .	Certificates for minors, . . .	Complied.
Knit goods, . . .	5	4	—	—	Fair, . .	Post time notice, . . .	Complied.
Knit goods, . . .	2	9	—	1	Good, . .	Certificate for minor; post time notice.	Complied.

Robert G. Roper, . .

Knit goods, . . .	9	7	—	—	Fair, . .	Post time notice, . . .	Complied.
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WELLESLEY.

Bishop Paper Mill, . .

Paper, . . .	15	10	—	—	Good, . .	Post time notice, . . .	Complied.
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REPORT OF INSPECTOR MULLEN.

In submitting my annual tabulated statement of work performed, reporting the condition of factories and workshops as relates to the employment of labor and other laws which it is my duty to enforce in the district under my supervision, I may state that I have found but little if any opposition in complying with the requirements of the statutes.

The sanitary conditions of the various establishments visited have been in almost every instance all that could be desired for the comfort of those employed. Ventilation of the factories and workshops has been found to be of such a character as to be of great importance to the health of those engaged in the various avocations of life.

The act which prohibits the employment of children under thirteen years of age has not been violated. But very few have been found employed between the ages of thirteen and sixteen; certificates for these have been procured and placed on file so as to be easily accessible for inspection.

I have found but very few establishments where the belting, gearing, shafting or any part of the machinery was not carefully guarded.

No violation of the weekly payment law has come to my notice.

But one fatal elevator accident has occurred in my district since my last report, and that was occasioned by a freight elevator. The employment of responsible persons operating passenger elevators has resulted in reducing the number of accidents. This matter has become of so much importance that those employing help to operate elevators have seen the great significance of caring for the safety of the many thousands who have access daily by these means of transportation in ascending and descending buildings of every kind where it is necessary to have elevators to convey human freight.

No evasions of the law providing for the posting of time tables have been found, the statute relating thereto being more fully understood than heretofore.

A ready and cheerful spirit has been shown by employers to use every effort to promote the welfare of their employees and to comply with orders from this department.

Inspections,	200
Orders issued,	25
Compliances,	25
Children under thirteen years,	-
Children between fourteen and sixteen years,	-
Number of males employed,	2,798
Number of females employed,	849
Total number employed,	3,647

DISTRICT No. 3, ISAAC S. MULLEN, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.			Females.			
		Males.	14 to 16.					
BOSTON.								
Ferris & McGee,	Cigars,	12	4	—	Good,	Provide time table; toilet for females,	Complied.	
Massachusetts Cigar Co,	Cigars,	15	5	—	Fair,	Post time table,	Complied.	
F. K. Kingman,	Cotton goods,	1	2	—	Fair,	Post time table,	Complied.	
M. F. Stinson,	Corks,	4	2	—	Fair,	Post time table,	Complied.	
R. & M. Hymans,	Cigars,	5	3	—	Fair,	Post time table,	Complied.	
Mercer & Riley,	Cigars,	7	1	—	Fair,	Post time table,	Complied.	
Wm. Geepeke,	Cigars,	8	2	—	Fair,	Post time table,	Complied.	
M. Daschever & Co.,	Cigars,	9	2	—	Fair,	Post time table,	Complied.	
Henry A. Earsey & Co.,	Brushes,	2	2	—	Fair,	Post time table,	Complied.	
Boston Cigar and Tobacco Co.,	Cigars,	14	14	—	Good,	Post time table,	Complied.	
F. Abraham & Sons,	Cigars,	20	4	—	Good,	Post time table,	Complied.	
John Driscoll,	Cigars,	17	8	—	Fair,	Post time table,	Complied.	
S. Grymish,	Cigars,	19	5	—	Fair,	Post time table,	Complied.	
Breslin & Campbell,	Cigars,	53	27	—	*	Post time table,	Complied.	
The Leader,	Variety,	14	5	—	Good,	Provide seats for females; post time table.	Complied.	
Union Rubber Co.,	Rubber coats,	12	8	—	Fair,	Post time table,	Complied.	
Roberts Building,	Various,	112	—	—	Fair,	Guard fly wheel and front of engine,	Complied.	
Murphy & Seavens,	Brushes,	4	10	—	Fair,	Post time table,	Complied.	

* Excellent.

DISTRICT NO. 3 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON — Concluded.								
F. Abrahams & Co., . . .	Cigars, . . .	20	4	—	—	Fair, . . .	Post time table,	Complied.
Bent & Bradbury, . . .	Cigars, . . .	24	12	—	—	Fair, . . .	Post time tables,	Complied.
I. W. Wheeler & Co., . .	Awnings, . . .	15	20	—	—	Good, . . .	Post time table,	Complied.
Jenkins Bros., . . .	Undertakers, . . .	9	9	—	—	Good, . . .	Post time table,	Complied.
A. B. Poole, . . .	Bonnets, . . .	8	4	—	—	Fair, . . .	Post time table,	Complied.
G. W. Hawes, . . .	Suspenders, . . .	3	5	—	—	Fair, . . .	Post time table,	Complied.
Findley & Co., . . .	Paper stock, . .	10	2	—	—	Good, . . .	Post time table,	Complied.

REPORT OF INSPECTOR SILLARS.

SIR:—In compliance with your order, I present herewith my report for the year.

There continues to be a marked improvement in the sanitary conditions of most factories, and the general average is constantly improving.

But one outside door has been found locked, and the means of escape for operatives in case of fire are found to be good. A number of firms in this district are provided with independent means of extinguishing fires that are quite creditable.

The few elevators in this district have been carefully examined and generally found in good condition.

But six children under fourteen years of age and one hundred and sixteen between fourteen and sixteen years have been found at work in this district. The children are mostly provided with school certificates. The greatest trouble found in regard to school certificates is during vacation time, as they think that they do not need any, and have a right to work without them when the schools are not in session.

Time tables have mostly been found posted. Often, however, they are found to be soiled or torn; new ones are in such cases given. A general desire to live up to the law is observed.

There have been a few fatal accidents in this district during the year, the projecting set screw being responsible for two of them. Especial care has been taken to have all projecting set screws removed or properly covered. Manufacturers do not as yet understand that they should report all accidents where the party injured is laid off from work for more than four days. Explosives and inflammable compounds are carefully kept where they do not endanger life, mostly in out-buildings near by, and only enough for the day's work brought into the factory.

The weekly payment law, chapter 438, Acts of 1895, providing that persons employing twenty-five or more people must pay weekly, is complied with as soon as the employers have their attention called to the law.

Exhaust fans are being more generally used for carrying off dust; and every device that clears the foul air out of rooms tends to improve the health of the operatives.

There have been no complaints of working overtime. Several firms have provided rooms and fitted them up and provided means whereby their operatives can warm their coffee, lunch, etc.

A ready disposition on the part of manufacturers to comply with orders has been found. Of the orders given during the year,

260 have been to guard machinery, belts, gears, set screws, etc. ; 79 in regard to time tables ; 39 in regard to openings, trap doors, etc. ; 29 in relation to water-closets ; 20 in regard to school certificates ; and 22 orders for sundry things.

Factories inspected,	422
Orders issued,	449
Compliances,	447
Total number of persons employed,	14,107
Males employed,	11,296
Females employed,	2,689
Children between thirteen and fourteen years,	6
Children between fourteen and sixteen years,	116

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14.	14 to 16.			
SOUTH BOSTON.								
City Iron Foundry, . . .	Castings, . . .	17	-	-	-	Fair, . . .	Rail stairways; cover set screws, . .	Complied.
W. P. Stone & Co., . . .	Wagons, . . .	25	-	-	-	Fair, . . .	Guard band saw, . . .	Complied.
N. Y., N. H. & H. R.R., . . .	Car machinery, . . .	150	-	-	-	Good, . . .	Cover set screws, . . .	Complied.
N. Y., N. H. & H. R.R., . . .	Car repairing, . . .	130	-	-	-	Good, . . .	Guard band saw; cover set screws; post time table.	Complied.
James S. Newell & Co., . . .	Machinery, . . .	10	1	-	-	Fair, . . .	Post time table; guard couplings; cover set screws.	Complied.
Christopher Wold & Co., . . .	Machinery, . . .	6	-	-	-	Fair, . . .	Guard couplings; cover set screws,	Complied.
Thorwold Hansen, . . .	Machinery, . . .	6	-	-	-	Fair, . . .	Cover set screws, . . .	Complied.
P. Lally & Co., . . .	Wagons, . . .	10	-	-	-	Fair, . . .	Cover set screws, . . .	Complied.
P. F. Burke, . . .	Toe calks, . . .	16	-	-	-	Fair, . . .	Rail opening; post time table, . .	Complied.
Farewell Bros., . . .	Kindlings, . . .	50	-	-	-	Fair, . . .	New trap door; guard machinery, .	Complied.
Consolidated Electric Manufacturing Co.	Electric supplies, . .	20	-	-	-	Good, . . .	Rail stairway; cover set screws, . .	Complied.
L. Spidell & Co., . . .	Bottling, . . .	9	-	-	-	Good, . . .	Guard main belt, . . .	Complied.
L. J. Couch & Co., . . .	Scenery, . . .	9	-	-	-	Fair, . . .	Post time table, . . .	Complied.
M. Caro, . . .	Store, . . .	2	2	-	-	Fair, . . .	Post time table, . . .	Complied.
Robert Harrison, . . .	Wagons, . . .	20	-	-	-	Fair, . . .	Post time table, . . .	Complied.
Johnson & Shaw, . . .	Chemicals, . . .	5	-	-	-	Fair, . . .	Guard platforms by rail, . . .	Complied.
Smith & Carlestone Iron Co., . . .	Castings, . . .	63	-	-	-	Fair, . . .	Post time table; cover set screws, .	Complied.

DISTRICT NO. 4 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.	Females.	Under 14.	14 to 16.				
SOUTH BOSTON — Continued.									
O. M. Whitman & Co.,	Refrigerators,	5	—	—	Fair,	Guard machinery,	Complied.		
Wade & Coffy,	Carriages,	6	—	—	Fair,	Rail opening,	Complied.		
H. O. Lothrop & Co.,	Ferrules,	11	—	—	Fair,	Post time table; cover set screws,	Complied.		
Boston Shoe Tool Co.,	Cutters,	23	—	—	Good,	Cover set screws,	Complied.		
Iona Manufacturing Co.,	Electric supplies,	41	39	—	Good,	Post time table,	Complied.		
H. A. Williams Manuf'g Co.,	Oilers,	17	6	—	Good,	Open doors; cover set screws,	Complied.		
A. & J. M. Anderson,	Electric supplies,	59	—	—	Fair,	Guard engine; post time table,	Complied.		
Hoyle & Crane,	Wool waste,	4	2	—	Bad,	Provide privy,	Complied.		
James Russell,	Boilers,	35	—	—	Poor,	Cover set screws; guard crank of engine.	Complied.		
Atlas Stores,	Storage,	12	—	—	Fair,	Guard engine and machines,	Complied.		
James S. Williams,	Storage,	6	—	—	Fair,	Cover set screws,	Complied.		
Jordan, Marsh & Co.,	Storage,	50	6	—	Poor,	Provide privy; post time table,	Complied.		
Compressed Steel Shafting Co.,	Shafting,	15	—	—	Fair,	Guard machinery,	Complied.		
Broadway Printing House,	Printing,	5	—	1	Fair,	Procure certificate; post time table,	Complied.		
Eugene Trafton,	Lumber,	2	—	—	Fair,	Cover set screws,	Complied.		
Union Toe Calk Co.,	Toe calks,	8	—	—	Fair,	Guard machinery; rail in engine,	Complied.		
O. Sheldon & Co.,	Boats,	14	—	—	Fair,	Post time table; guard machinery,	Complied.		
Daniel Russell,	Boilers,	8	—	—	Fair,	Guard gears on two punching machines.	Complied.		
Hersey Manufacturing Co.,	Meters,	82	—	1	Good,	Cover set screws; procure certificate,	Complied.		
L. G. Burnham & Co.,	Kindlings,	8	—	—	Fair,	Guard engine and saw; cover set screws.	Complied.		

Dodge Iron Foundry Co.,	Castings,	20	—	—	Fair,	Guard main belt and rattlers,	Complied.
Howard Iron Foundry Co.,	Castings,	100	—	—	Fair,	Guard engine; cover set screws,	Complied.
The Herbert Bradley Co.,	Bedsteads,	4	—	—	Fair,	Procure certificate; post time table,	Complied.
Hamberger Bros.,	Rags,	55	40	—	Fair,	Post time table,	Complied.
Rochester Brewing Co.,	Beer,	10	4	—	Good,	Post time table,	Complied.
H. Gore & Co.,	Asphalt,	6	—	—	Fair,	Rail passageway,	Complied.
N. E. Adamant Co.,	Adamant,	6	—	—	Fair,	Post time table,	Complied.
Suffolk Brewing Co.,	Beer,	46	—	—	Poor,	Guard belts; cover set screws; provide privy.	—*
Pierce & Son,	Shoes,	90	50	—	Fair,	Post time table; cover set screws; guard roller.	Complied.
Bernstein Electric Co.,	Electric supplies,	45	65	—	Good,	Cover set screws; guard crank of engine.	Complied.
Stiles & Winslow,	Morocco,	50	—	—	Fair,	Cover coupling; guard fly wheel,	Complied.
Geo. H. Lincoln & Co.,	Castings,	22	—	—	Fair,	Guard engine; rail hoistway; cover set screws.	Complied.
D. H. Gear & Son,	Extracts,	4	4	—	Bad,	Clean and designate privy,	Complied.
Chase & Co. Corporation,	Candy,	60	125	—	Good,	Post time table; cover set screws; cover coupling.	Complied.
N. Y. and N. E. R.R. elevator,	Elevator,	19	—	—	Fair,	Rail opening; cover set screws; guard belts and couplings.	Complied.
American Plate and Window Glass Co.,	Glass,	49	—	—	Fair,	Procure certificate; post time table,	Complied.
E. P. Barrett Manufacturing Co.,	Metals,	10	—	—	Fair,	Guard trap door,	Complied.
Sweatt & Chace,	Brass castings,	14	—	—	Fair,	Guard motor by rail,	Complied.
Cunningham Iron Co.,	Boilers,	30	—	—	Fair,	Guard gears and wheels; cover set screws.	Complied.
Moore & Wyman,	Elevators,	35	—	—	Good,	Cover set screws,	Complied.
Brooklin Cooperage Co.,	Barrels,	90	—	—	Poor,	Clean privy; guard machine; post time table.	Complied.

* Complied in part.

DISTRICT No. 4 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
SOUTH BOSTON — <i>Concluded.</i>								
R. G. Elliott,	Carpet beating,	3	—	—	—	Fair,	Cover set screws,	Complied
R. S. Hotchkiss,	Kindlings,	9	—	—	—	Poor,	Clean privy,	Complied.
J. T. Waitt,	Stairs,	9	—	—	—	Good,	Guard band saw; cover set screws,	Complied.
A. K. Richmond & Son,	Derricks,	7	—	—	—	Good,	Have belt guarded,	Complied.
Boston Fire Brick Works,	Terra cotta,	115	—	—	—	Fair,	Guard wheel; cover set screws;	Complied.
							electric bell with engine.	
Geo. Lawley & Son Corporation,	Yachts,	130	—	—	—	Fair,	Guard engine; post time tables;	Complied
							cover set screws.	
N. Harlan & Co.,	Bottling,	7	—	—	1	Fair,	Post time table,	Complied.
Standard Laundry,	Laundry,	2	7	—	—	Fair,	Post time table,	Complied.
Frank Jones Brewing Co.,	Beer,	35	—	—	—	Fair,	Cover set screws,	Complied.
Walworth Manufacturing Co.,	Machinery,	580	—	—	1	Good,	Guard machinery; cover set screws,	Complied.
Boston Beer Co.,	Beer,	21	—	—	—	Poor,	Repair privy; guard belt; cover set screws.	Complied.
Robert Bishop,	Cotton waste,	20	75	—	—	Fair,	Cover couplings and set screws,	Complied.
Farewell Bros.,	Kindling,	48	—	—	1	Fair,	Procure certificate; post time table,	Complied.
Whittier Machine Co.,	Elevators,	165	—	—	—	Good,	Cover set screws,	Complied.
Boston Button Co.,	Buttons,	36	204	—	—	Good,	Guard fly wheel; post time table,	Complied.
Am. Standard Sugar Refinery,	Sugar,	600	—	—	—	Fair,	Cover set screws,	Complied
Ipswich Mills Co.,	Hosiery,	7	123	1	28	Fair,	Guard crank of engine; procure fourteen certificates; post time table.	Complied.

DISTRICT No. 4 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
EAST BOSTON — <i>Concluded.</i>								
S. T. Manson & Co., . . .	Lumber, . . .	25	—	—	—	Poor, . . .	Clean and repair privy; guard coupling and set screws.	Complied.
Atlantic Works, . . .	Machinery, . . .	250	—	—	—	Fair, . . .	Post time table, . . .	Complied.
B. & A. R.R. Elevator, . . .	Elevator, . . .	15	—	—	—	Fair, . . .	Guard belts and gears; rail hoistway, . . .	Complied.
Phono. Harp Co., . . .	Harps, . . .	15	—	—	—	Fair, . . .	Provide exhaust fan; post time table, . . .	Complied.
Bardwell-Anderson Co., . . .	Tables, . . .	60	—	—	—	Fair, . . .	Guard engine; cover set screws; post time table.	Complied.
Boston Forge Co., . . .	Axles, . . .	56	—	—	—	Fair, . . .	Guard crank of engine, . . .	Complied.
W. S. Pratt, . . .	Whiting, . . .	11	—	—	—	Fair, . . .	Cover set screws, . . .	Complied.
Lasky & Brown, . . .	Mantels, . . .	5	—	—	—	Fair, . . .	Guard band saw and machinery, . . .	Complied.
L. S. LeBarron, . . .	Boxes, . . .	9	—	—	—	Fair, . . .	Guard circular saw belt, . . .	Complied.
H. B. Emons, . . .	Lumber, . . .	7	—	—	—	Fair, . . .	Guard movable circular saw; cover set screws.	Complied.
Bay State Manufacturing Co., . . .	Stairs, . . .	5	—	—	—	Fair, . . .	Rail door; provide exhaust fan, . . .	Complied.
James Jackson, . . .	Mantels, . . .	8	—	—	—	Fair, . . .	Cover set screws, . . .	Complied.
F. O. Veglahan, . . .	Furniture, . . .	4	—	—	—	Fair, . . .	Rail hoistway, . . .	Complied.
Anderson Bros., . . .	Heaters, . . .	3	—	—	—	Fair, . . .	Cover set screw, . . .	Moved.
W. H. Swift & Co., . . .	Acids, . . .	12	—	—	—	Fair, . . .	Guard crank of engine, . . .	Complied.
Jewett Lumber Co., . . .	Lumber, . . .	200	—	—	—	Fair, . . .	Guard fly wheel; cover set screws, . . .	Complied.
N. E. Pottery Co., . . .	Pottery, . . .	43	9	—	—	Fair, . . .	Post time table; cover set screws, . . .	Complied.
Alex. McLarrin, . . .	Lumber, . . .	30	—	—	—	Fair, . . .	Guard circular saw; cover set screws, . . .	Complied.

Solomont & Clement,	Mantels,	5	-	-	-	Fair,	Box and guard belts; cover set screws.	Moved.
C. P. Whittle,	Fixtures,	20	-	-	-	Fair,	Repair exhaust fan,	Completed.
G. B. Dower,	Mantels,	8	-	-	-	Fair,	Repair exhaust fan,	Completed.
N. Y. & Boston Dyewood Co.,	Dye extracts,	55	-	-	-	Fair,	Cover set screws,	Completed.
E. Hodge & Co.,	Boilers,	50	-	-	-	Fair,	Cover set screws; post time table,	Completed.
Geo. M. Porter & Co.,	Iron work,	12	-	-	-	Fair,	Box in elevator,	Completed.
James Gurney & Co.,	Castings,	150	-	-	-	1 Fair,	One certificate; post time table; cover set screws.	Completed.
DORCHESTER.								
C. M. Bugbee & Co.,	Lumber finish,	10	-	-	-	Fair,	Guard band saw and crank of engine; cover set screws.	Completed.
Charles W. Robbins,	Beds,	4	-	-	-	1 Fair,	Procure certificate,	Completed.
McNeal Bros.,	Lumber finish,	30	-	-	-	Fair,	Guard coupling, crank of engine and band saw.	Completed.
Edward Lynch,	Stairs,	25	-	-	-	Fair,	Guard band saw,	Completed.
P. F. Curry,	Power,	1	-	-	-	Fair,	Connect with bell, tenants and engine room.	Completed.
M. W. Cain & Son,	Desks,	28	-	-	-	Fair,	Guard circular saw; cover set screws,	Completed.
H. B. Simpson & Co.,	Refrigerators,	9	-	-	-	Fair,	Guard coupling, circular saw and band saw.	Completed.
J. Ripley & Son,	Desks,	5	-	-	-	Fair,	Guard crank of engine,	Completed.
Eagle Paper Co.,	Paper,	38	-	-	16	Fair,	Cover coupling; rail over water-way; cover set screws.	Completed.
Beacon Lithograph Co.,	Lithographs,	50	-	-	6	1 Good,	Cover set screws,	Completed.
Dorchester Beacon,	News,	12	-	-	6	Fair,	Guard machinery in engine room,	Completed.
Edward S. Clark,	Engines,	8	-	-	-	Poor,	Provide privy; post time table; cover set screws.	Completed.
Coffin Valve Co.,	Valves,	40	-	-	-	1 Fair,	Post time table,	Completed.
A. T. Stearns Lumber Co.,	Lumber,	150	-	-	-	1 Good,	Post time table; procure certificate; cover set screws.	Completed.

DISTRICT No. 4 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14. 14 to 16.			
DORCHESTER — <i>Concluded.</i>							
D. Eddy & Son,	Refrigerators,	40	—	—	Fair,	Guard engine,	Complied.
Dorchester Manufacturing Co.,	Folding beds,	9	—	—	Fair,	Connect exhaust fan,	Complied.
Boston Gas Light Co.,	Gas,	5	—	—	Good,	Guard engine,	Complied.
Putnam Nail Co.,	Nails,	150	133	—	Good,	Guard gears; cover set screws,	Complied.
Walter Baker & Co., Limited,	Chocolate,	217	173	—	Good,	Box large belt,	Complied.
CHARLESTOWN.							
G. F. Callier,	Leather,	12	—	—	Fair,	Cover set screws,	Complied.
Fairfield Furniture Co.,	Furniture,	7	—	—	Poor,	Clean privy,	Complied.
Edwards & Hooper,	Stone ware,	14	—	—	Poor,	Repair privy; guard main belt; cover set screws.	Complied.
J. D. Robertson,	Stairs,	6	—	—	Poor,	Cover set screws,	Complied.
H. H. Osgood & Co.,	Weather strips,	6	—	—	Poor,	Guard coupling; clear rear stairway,	Complied.
Flint & Hall,	Power,	1	—	—	Poor,	Provide privy for tenants,	Complied.
David P. Page,	Finish,	30	—	—	Fair,	Cover set screws,	Complied.
H. D. Gloyd,	Preserves,	6	—	—	Fair,	Guard opening over the kettles,	Complied.
Furbush & Co.,	Sausage,	32	—	—	Fair,	Guard engine; cover set screws,	Complied.
E. A. Gillette & Sons,	Carriage stock,	18	—	—	Fair,	Guard main belt,	Complied.
Standard Chain Works,	Chains,	3	—	—	Fair,	Cover set screws,	Complied.
Patrick McGowan,	Leather,	35	—	—	Fair,	Cover set screws,	Complied.
J. T. Reed & Co,	Glove cleaning,	3	24	—	Fair,	Cover coupling; provide for safety of those in naphtha room.	Complied. —*

Crawford Laundry Machinery Co.	Machinery,	15	-	-	Fair,	Cover all set screws through building.	Complied.
Rood, Lovet & Taylor,	Mantels,	3	-	-	Fair,	Guard band saw; box belt,	Complied.
Enterprise Laundry Co.,	Laundry,	1	18	-	Fair,	Guard hoistway; post time table,	Complied.
Nathaniel Tufts,	Meters,	33	-	-	Fair,	Guard coupling,	Complied.
A. Anderson & Co.,	Boxes,	38	1	-	Fair,	Guard belts and machinery; one certificate; post time table.	Closed up.
Raymond Bicycle Co.,	Bicycles,	16	6	-	Fair,	Guard gears; one certificate; post time table.	Complied.
Eastman Car Heater Co.,	Car heaters,	10	-	-	Fair,	Cover set screws,	Complied.
R. W. Pratt,	Engines,	9	-	-	Fair,	Cover set screws,	Complied.
Munroe & Coneley,	Laundry,	6	5	-	Fair,	Guard machinery; post time table,	Complied.
Osgood & Hart,	Castings,	69	-	-	Fair,	Guard belt, band saw and rattlers,	Complied.
Howard Manufacturing Co.,	Webbing,	35	130	-	Good,	Post time table; cover set screws,	Complied.
Webb Black Lead Works,	Black lead,	3	-	-	Poor,	Repair privy; cover set screws,	Complied.
Geo. H. Wood & Co.,	Blacking,	5	1	-	Fair,	Guard gears,	Complied.
Artistic Carving Co.,	Moulding,	30	-	-	Fair,	Guard saw and gears; cover set screws.	Complied.
Geo. N. Toms,	Mantels,	3	-	-	Fair,	Guard belts and coupling; cover set screws.	-
C. M. Partlowe,	Lumber,	5	-	-	Fair,	Guard engine crank and band saw,	Complied.
S. Wing & Co.,	Photo. goods,	7	2	-	Fair,	Post time table,	Complied.
Philadelphia and Boston Face Brick Co.	Bricks,	45	-	-	Fair,	Guard machinery,	Complied.
Hoosac Tunnel Elevator,	Elevator,	11	-	-	Fair,	Guard machinery; rail openings,	Complied.
B. & M. R.R. Elevator,	Elevator,	12	-	-	Fair,	Guard gears and belts; rail openings,	Complied.
Cutter & Cutter,	Trunks,	32	8	-	Fair,	Repair elevator gates; post time table.	Complied.
Powers & Co.,	Elevator,	6	-	-	Fair,	Guard engine,	Complied.

* Complied in part.

DISTRICT No. 4 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
CHARLESTOWN — <i>Concluded.</i>								
G. M. Bowditch,	Wagons,	8	—	—	—	Fair,	Guard coupling and band saw; cover set screw.	Complied.
Albree & Pratt,	Printing,	3	—	—	—	Fair,	Post time table,	Complied.
A. G. Van Nostrand,	Beer,	90	—	—	—	Fair,	Cover set screws,	Complied.
Palmer, Parker & Co.,	Veneers,	40	—	—	—	Fair,	Guard fly wheel; cover coupling,	Complied.
Bay State Box Co.,	Boxes,	7	—	—	—	Fair,	Guard circular saw,	Complied.
Crosby Steam Gage and Valve Co.,	Valves,	95	5	—	—	Good,	Cover set screws,	Complied.
Hatch & Farnum,	Furniture,	17	—	—	—	Poor,	Clean drain pipes of closets,	Complied.
Davidson Rubber Co.,	Rubber,	45	65	—	1	Good,	Post time table; guard machinery,	Complied.
Stickney & Poor Spice Co.,	Spices,	20	26	—	—	Fair,	Guard coupling and set screws,	Complied.
D'Esté & Seeley Co.,	Brass work,	36	—	—	1	Fair,	Procure certificate; provide exhaust fan.	Complied.
Rand & Steinhardt,	Printing,	3	—	—	—	Fair,	Post time table,	Complied.
E. T. Cowdry & Co.,	Preserves,	11	21	—	—	Good,	Designate closets,	Complied.
CHELSEA.								
Vulcan Manufacturing Co.,	Bedsteads,	5	—	—	—	Poor,	Clean privy; guard main belt and trap door.	Complied.
Anderson Bros.,	Baskets,	6	1	—	—	Fair,	Procure school certificate,	Complied.
Samuel Cabot,	Lampblack,	27	—	—	2	Fair,	Procure certificate; guard engine; post time table.	Complied.

J. W. Stickney & Co.,	Whitening,	17	—	—	Fair,	Rail opening; repair the safety to elevator; guard machinery.	Complied.
Wm. H. Norris & Sons,	Soap,	4	—	—	Fair,	Box belt,	Complied.
American Fire Hose Manuf'g Co.,	Fire hose,	19	11	—	Good,	Post time table,	Complied.
Sweet Car Wheel Co.,	Car wheels,	30	—	—	Fair,	Repair elevator car,	Complied.
N. E. Paint Co.,	Paint,	9	3	—	Fair,	Guard main belt and coupling; post time table; guard opening.	—*
L. K. Husted Laundry Co.,	Laundry,	6	17	—	Fair,	Guard mangle,	Complied.
A. L. Haskell & Co.,	Bedding,	9	8	—	Good,	Post time table; guard elevator,	Closed.
Boston Blacking Co.,	Cement,	9	3	—	Poor,	Repair privy; guard gears on machines.	Complied.
Fred. Theise,	Baskets,	14	2	—	Fair,	Post time table,	Complied.
Daniel Buckley,	Soap,	3	—	—	Poor,	Guard opening,	Complied.
B. P. Nichols,	News,	6	5	—	Fair,	Designate closets,	Complied.
Forbes Lithograph Co.,	Lithographs,	339	135	4	Fair,	Guard wheels; post time table; cover set screws.	Complied.
Charles H. Pike & Co.,	Printing,	5	2	—	Fair,	Post time table,	Complied.
H. Mason & Son,	News,	3	2	—	Fair,	Post time table,	Complied.
Estate of L. S. Slade,	Cigars,	2	3	—	Fair,	Post time table,	Complied.
Chelsea Fire Brick Co.,	Brick,	6	—	—	Fair,	Cover set screws,	Complied.
Lynn and Boston Street Power Station.	Power,	11	—	—	Fair,	Guard main belts on engines,	Complied.
A. Shydecker,	Jewelry,	15	15	—	Good,	Guard engine; designate closets; procure certificate; post time table.	Complied.
Albion, Lord & Co.,	Grease,	2	—	—	Fair,	Guard hoistway,	Complied.
Bedall Manufacturing Co.,	Brass work,	4	—	—	Fair,	Cover set screws,	Complied.
Revere Shoe Manufacturing Co.,	Shoes,	48	36	1	Good,	Guard coupling; procure certificate,	Complied.
A. D. Black,	Screens,	10	—	—	Poor,	Repair privy; guard belt; cover set screws.	Complied.

* Out of business.

DISTRICT NO. 4 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14. 14 to 16.			
CHELSEA — Concluded.							
A. S. Rogers Shoe Co.,	Shoes, .	258	129	14	Fair, .	Post time table, .	Complied.
Sawyer Crystal Blue Co.,	Bluing, .	4	8	1	Fair, .	Procure certificate; post time table, .	Complied.
George A. Drysdale, .	Bedsteads, .	6	2	—	Poor, .	Clean and repair privy, .	Complied.
The McCrillis Co.,	Bedding, .	4	2	—	Good, .	Post time table and designate closets, .	Complied.
Standard Elastic Fabric Co.,	Webbing, .	5	1	—	Poor, .	Repair privy; post time table, .	Complied.
A. A. White & Co.,	Paint, .	4	—	—	Fair, .	Guard machinery, .	Complied.
U. S. Foundry Co.,	Weights, .	30	—	—	Fair, .	Cover set screws, .	Complied.
Chelsea Wire Fabric Co.,	Fire hose, .	40	—	—	Fair, .	Post time table, .	Complied.
S. K. Lovewell & Co.,	Machinery, .	40	—	—	Fair, .	Guard belt and rattlers, .	Complied.
Low Art Tile Co.,	Tiles, .	49	3	1	Good, .	Cover set screws, .	Complied.
Thos. Strahn & Co.,	Paper, .	14	1	—	Good, .	Cover set screws, .	Complied.
Atwood & McManus, .	Boxes, .	32	—	—	Fair, .	Post time tables; guard belt; cover set screws.	Complied.
Austin & Graves, .	Crackers, .	15	5	—	Fair, .	Cover set screws; guard elevator openings.	Complied.
White, Halem & Co.,	Furniture, .	55	—	—	Fair, .	Post time table; guard band saw machinery.	Complied.
Massachusetts Electric Supply Co.	Lumber, .	15	—	—	Fair, .	Guard circular saw, .	Complied.
Partlow Extract Co.,	Extracts, .	5	—	—	Fair, .	Guard elevator well, .	Complied.
J. D. Loftus & Co.,	Oil, .	7	—	—	Poor, .	Repair privy and clean up, .	Complied.

Geo. D. Emery, . . .	Mahogany, . .	125	-	-	Fair, .	Guard belts and gears; cover set screws; post time table.	Complied.
John L. Morgan, . .	Webbing, . .	1	5	-	Good, .	Post time table,	Complied.
Peerless Const. Manuf'g Co., .	Bicycle handles, .	7	12	-	Poor, .	Provide additional closet; post time table.	—*
Boston Rubber Co., . .	Rubber goods, .	150	220	-	Fair, .	Guard engines; box belt; post time table.	Complied.
Magoun Leather Co., . .	Leather, . .	20	-	-	Poor, .	Repair privy; guard engine by rails,	Complied.
Revere Rubber Co., . .	Rubber goods, .	624	26	-	Fair, .	Guard gears and engine; post time table.	Complied.
Collins & Lee, . . .	Canning fish, .	11	5	-	Fair, .	Procure certificates; post time table,	Complied.
T. H. Buck & Co., . .	Lumber, . .	31	-	-	Fair, .	Guard engines; box in belts; cover set screws.	Complied.
Lynn & Boston Street R.R., .	Repairs, . .	26	-	-	Fair, .	Guard hoistway; cover set screws,	Complied.
Mt. Washington Cold Spring Manufacturing Co.	Water and tonics, .	20	-	-	Fair, .	Rail openings; post time table; guard crank and fly wheel; cover set screws.	Complied.
REVERE.							
Boston Fireproofing Co., . .	Fireproofing, .	48	-	-	Poor, .	Provide privy; guard opening by rails.	Complied.
Ferris Family Laundry Co., .	Laundry, . .	3	3	-	Fair, .	Post time table; designate closets, .	Burned out.

* Complied in part.

REPORT OF INSPECTOR ABBOTT.

Summary of Inspection Work.

Number of factories inspected,	445
Number of buildings inspected,	50
Number of elevators inspected,	177
Number of orders issued,	129
Number of compliances,	127
Number in process of compliance,	2
Better egress needed, reported to Mr. Dyson,	4
Number of prosecutions,	3
Children under fourteen years of age employed,	32
Had attended school thirty weeks or more,	15
Children between fourteen and sixteen years of age,	1,674
Males over sixteen years of age employed,	34,954
Females over sixteen years of age employed,	16,885
Visits to factories on account of complaints, fires, changes in machinery and employees,	69

No record of visits on account of orders issued or in relation to compliances with new laws passed by the Legislature of 1895, as such work was largely done in connection with regular inspection work, although it required many visits and increased the correspondence of this office about seventy-five per cent. over last year.

DISTRICT No. 5, LEWIS F. F. ABBOTT, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ASHBURNHAM.								
Williams & Co.,	Chairs,	20	—	—	Fair,	Post time table, . . . . .	. . . . .	Complied.
I. E. Platts,	Chairs and stock,	35	—	—	Fair,	Post time table, . . . . .	. . . . .	Complied.
Massachusetts Car Co.,	Chairs and cars,	80	—	—	Good,	Procure school certificate, . . . . .	. . . . .	Complied.
AUBURN.								
The Crossley Manufacturing Co.,	Satinets,	67	8	—	Good,	Post time table, . . . . .	. . . . .	Complied.
ATHOL.								
Chas. M. Lee & Sons,	Boots and shoes,	175	275	—	Good,	Guard shaft on stitching table, . . . . .	. . . . .	Complied.
Munroe, Elkins & Smallridge,	Boots and shoes,	47	10	—	Good,	Post time table, . . . . .	. . . . .	Complied.
Edson Fitch,	Matches,	58	2	—	Good,	Designate water-closet; post time table.	. . . . .	Complied.
Arthur F. Tyler,	Sash and blinds,	55	—	—	Good,	New cable for elevator, . . . . .	. . . . .	Complied.
Lewis Sanders,	Match blocks,	40	—	—	Good,	Comply with provisions of chapter 438, Acts of 1895.	. . . . .	Complied.
A. M. Lee & Co.,	Boots and shoes,	25	15	—	Good,	Post time table, . . . . .	. . . . .	Complied.
BERLIN.								
E. P. Hastings,	Boots and shoes,	21	—	—	Fair,	Post time table, . . . . .	. . . . .	Complied.

DISTRICT No. 5—Continued.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BROOKFIELD.								
George H. Burt,	Boots and shoes, .	82	41	—	—	Good, .	Designate water-closet; new cable for elevator; post time table.	Complied.
C. H. Moulton,	Boots and shoes, .	243	57	—	—	Good, .	New cable for elevator,	Complied.
Brookfield Paper Box Co., .	Paper boxes, .	5	17	—	4	Fair, .	Post time table; procure school certificate.	Complied.
Bradford Yarn Mill,	Woollen yarn, .	12	2	—	—	Good, .	Designate water-closet; post time table.	Complied.
CHARLTON.								
Springbrook Mill,	Satinets, .	33	45	—	4	Good, .	Procure two new certificates properly signed.	Complied.
J. O. Copp,	Satinets, .	16	15	—	2	Good, .	Post time table,	Complied.
CLINTON.								
Smiley Manufacturing Co., .	Ladies' wrappers, .	3	12	—	—	Good, .	Designate water-closet; post time tables.	Complied.
Witherell Shoe Co.,	Shoes,	8	4	—	—	Good, .	Guard shaft on stitching bench, .	Complied.
DANA.								
J. E. Stowell,	Boxes,	23	—	—	1	Good, .	Procure school certificate,	Complied.
DUDLEY.								
Perry Yarn Mill,	Woollen yarn, .	16	5	—	—	Good, .	Post time table,	Complied.

FITCHBURG.	Parkhill Mill, A,	Gingham,	285	180	—	38	Good,	Keep outside doors unlocked during working hours.	Complied.
	Parkhill Mill, C,	Gingham,	265	220	—	9	Good,	Keep outside doors unlocked during working hours.	Complied.
	Star Worsted Co.,	Woollen yarn,	42	93	—	26	Good,	Not to make up time lost on a holiday.	Complied.
	Eastern Manufacturing Co.,	Shirts,	4	56	—	2	Good,	Post time table,	Complied.
	S. G. Cushing,	Wood turning,	6	—	—	—	Good,	Post time table,	Complied.
	Nockeege Mill,	Print cloth,	97	85	—	18	Good,	Post specifications,	Complied.
	E. H. Whittemore,	Paper boxes,	2	6	—	—	Good,	Designate water-closet,	Complied.
	Lorin Harsley,	Bookbinding,	2	4	—	—	Good,	Post time table,	Complied.
GARDNER.	John A. Dunn,	Chairs,	95	—	—	2	Poor,	Better sanitarries,	Complied.
GRAFTON.	J. S. Nelson & Son Shoe Co.,	Boots and shoes,	25	4	—	—	Good,	New cable to one elevator; repair gates to both; rail to back stairs.	Complied.
	William Paton,	Shoe strings,	7	15	—	4	Good,	Guard shaft on braiding machines,	Complied.
HOLDEN.	North Woods Woollen Co.,	Casimeres,	32	8	—	1	Good,	Designate water-closet,	Complied.
	Springdale Mill,	Satinets,	21	15	—	1	Good,	Post time table; procure school certificate.	Complied.
LEICESTER.	C. W. Warren & Son,	Heels and stock,	22	28	—	2	Good,	Guard belt on second floor; post time table; procure school certificate.	Complied.
	C. H. Deland,	Laundry,	3	3	—	—	Fair,	Post time table,	Complied.

DISTRICT No. 5 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.	Females.	Under 14.	14 to 16.				
LEOMINSTER.									
Wachusett Shirt Co., .	Shirts, . .	33	450	—	3	Good, .	Poor egress reported to Mr. Dyson,	—	
Newton & Merriam, .	Horn goods, .	39	4	—	—	Poor, .	Provide suitable water-closet, .	Complied.	
Leominster Button Co., .	Horn buttons, .	21	4	—	1	Good, .	Keep outside doors unlocked during working hours.	Complied.	
Williams & Winn, .	Horn goods, .	39	6	—	—	Good, .	Provide water-closet for females, .	Complied.	
A. W. Colburn & Co., .	Musical goods, .	28	5	—	—	Good, .	Comply with provisions of chapter 438, Acts of 1895.	Complied.	
G. A. Gane Shirt Co., .	Shirts, . .	25	220	—	—	Good, .	Post time table,	Complied.	
MILLBURY.									
Cordis Mills, . .	Ticking, . .	72	85	—	15	Good, .	Stop women and minors working before schedule time.	Complied.	
Aldrich Mill, . .	Satinets, . .	67	30	—	4	Good, .	Guard main belt,	Complied.	
Atlanta Mill, . .	Cassimeres, . .	62	13	—	—	Good, .	Designate water-closet,	Complied.	
Crane & Waters, . .	Knit underwear, .	45	35	—	—	Good, .	Comply with provisions of chapter 438, Acts of 1895.	Complied.	
Lapham Woollen Mill, .	Cassimeres, . .	122	91	—	16	Good, .	Designate water-closet,	Complied.	
Whitney, Macduff & Co., .	Linen thread, . .	6	37	—	4	Good, .	Post time table; designate water-closet.	Complied.	
Edwin Hoyle, . .	Wool suitings, .	20	8	—	1	Good, .	Guard rail for stairs; post time table,	Complied.	
C. D. Morse & Co., .	Woodworking, .	76	—	—	—	Good, .	Post time table; remove two set screws.	Complied.	

DISTRICT No. 5 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.		Under 14.	14 to 16.			
		Females.						
WESTBOROUGH — <i>Concluded.</i>								
L. A. Fairbanks & Co., . . .	Ladies' underwear,	5	35	—	—	Good, .	Designate water-closet; post time table.	Complied.
The Hunt Manufacturing Co., .	Bicycle accessories,	30	5	—	2	Good, .	Post time table, . . .	Complied.
WINCHENDON.								
Nelson Mill, . . .	Denims, . . .	131	59	—	11	Good, .	Post specifications, . . .	Complied.
Glen Allen Mill, . . .	Denims, . . .	53	92	—	8	Good, .	Post specifications, . . .	Complied.
M. E. Conners, . . .	Toys, . . .	73	30	—	5	Good, .	Provide guards to elevator well, .	Complied.
Mason & Parker, . . .	Braces and toys, . . .	35	5	—	4	Good, .	Provide guards to elevator well, .	Complied.
N. E. Lock and Hinge Co., . .	Steel presswork, . . .	9	1	—	—	Good, .	Post time table, . . .	Complied.
WORCESTER.								
Worcester Thread Co., . . .	Shoe thread, . . .	15	40	—	7	Good, .	Procure school certificate, . . .	Complied.
Worcester Carpet Co., . . .	Carpets, . . .	160	150	—	32	Good, .	Provide new cable for elevator, .	Complied.
Waverley Shoe Co., . . .	Boots and shoes, . . .	52	33	—	—	Good, .	Comply with provisions of chapter 348, Acts of 1895.	Complied.
Whitcomb Envelope Co., . . .	Envelopes, . . .	50	135	—	—	Good, .	Designate water-closet, . . .	Complied.
Worcester Counter Co., . . .	Moulded counters, . . .	115	10	—	18	Good, .	Procure school certificate, . . .	Complied.
Worcester Slipper Co., . . .	Slippers, . . .	22	20	—	2	Good, .	Post time table; procure school certificate.	Complied.
The Mason Brush Works, . . .	Brushes . . .	5	10	—	—	Good, .	Post time table, . . .	Complied.

Name	Jumper and overalls	5	63	-	-	Good, .	Comply with provisions of chapter 348, Acts of 1895.	Complied.
A. C. Hildreth, . . .	Jumpers and overalls,	5	63	-	-	Good, .	Comply with provisions of chapter 348, Acts of 1895.	Complied.
City Laundry, . . .	Laundry, . . .	4	12	-	-	Good, .	Post time table, . . .	Complied.
Mason Rusch Vocalion Co., . . .	Organs, . . .	44	3	-	-	Good, .	Post time table, . . .	Complied.
F. S. Blanchard, . . .	Printing, . . .	17	2	-	-	Good, .	Designate water-closet, . . .	Complied.
William Hyland, . . .	Mattresses, . . .	28	12	-	-	Good, .	Post time table, . . .	Complied.
Worcester Pants Co., . . .	Pantalons, . . .	20	20	-	-	Good, .	Guard shaft on stitching table, . . .	Complied.
Williams Bros., . . .	Wood and paper boxes,	27	23	-	1	Good, .	Guard elevator well and opening in stock room.	Complied.
Hubley Manufacturing Co., . . .	Satinets, . . .	7	6	-	-	Good, .	Post time table; guard elevator well; poor egress reported to Mr. Dyson.	Complied.
Charles Hamilton, . . .	Printer, . . .	17	1	-	-	Good, .	Post time table, . . .	Complied.
J. W. Hall, . . .	Fancy cotton, . . .	3	1	-	-	Good, .	Post time table, . . .	Complied.
F. H. Perkins, . . .	Heels and welts, . . .	10	25	-	5	Poor, .	Provide better sanitararies; post time table.	Complied.
Sol Kounitz, . . .	Ladies' wrappers, . . .	4	12	-	-	Poor, .	Provide water-closet; post time table.	Complied.
Thomas C. Orndorff, . . .	Ammunition belts, . . .	14	7	-	-	Good, .	Post time table, . . .	Complied.
F. S. Robbins, . . .	House finish, . . .	37	-	-	-	Good, .	Guard crank and fly wheel, . . .	Complied.
Domestic Laundry, . . .	Laundry, . . .	6	10	-	-	Good, .	Designate water-closet, . . .	Complied.
The Boston S. C. Food Co., . . .	Shredded wheat, . . .	38	12	-	-	Good, .	Post time table, . . .	Complied.
Eureka Manufacturing Co., . . .	Boots and shoes, . . .	23	12	-	-	Good, .	Keep outside doors unlocked during working hours; guard shaft on stitching table.	Complied.
Aaron Ginsburg, . . .	Overalls and jumpers,	3	19	-	-	Poor, .	Provide water-closet; post time table.	Complied.
The Ware Pratt Co, . . .	Clothing, . . .	12	50	-	-	Good, .	Poor egress reported to Mr. Dyson,	-
John F. Fowkes, . . .	Blankets and halters,	2	2	-	-	Poor, .	Provide water-closet, . . .	Late order.
G. W. Ingalls, . . .	Organ reeds, . . .	11	9	-	-	Good, .	Post time table, . . .	Complied.
Worcester Woollen Mill, . . .	Wool suitings, . . .	120	150	2	11	Good, .	Procure school certificate, . . .	Complied.

DISTRICT No. 5,

JOHN E. FOULDS, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.		Females.	Under 14.				14 to 16.
ATHOL.									
Geo. S. Brewer, . . .	Wooden boxes, . .	8	-	-	-	Fair, .	Guard balance wheel to engine, .	Complied.	
Edwin Ellis & Son, . .	Sashes and blinds, .	45	-	-	2	Good, .	Guard engine crank, . . .	Complied.	
Wm. M. Lee & Sons, . .	Ladies' boots and shoes.	200	300	1	6	Good, .	Procure school certificates, . .	Complied.	
A. F. Tyler, . . .	Sashes and blinds, .	40	-	-	2	Good, .	Guard belts, . . .	Complied.	
Bates Bros., . . .	Pocket books, . .	40	100	-	4	Good, .	Post time tables, . . .	Complied.	
Athol Paper Box Co., . .	Paper boxes, . .	9	11	-	2	Good, .	Post time table; secure school certificate.	Complied.	
D. E. Adams Silk Manufactory, .	Silk thread, . .	10	24	-	1	Good, .	Post time table, . . .	Complied.	
L. Saunders & Co., . . .	Cooper stock, . .	45	-	-	-	Good, .	Guard fly-wheel and engine crank, .	Complied.	
ASHBURNHAM.									
Boston Chair Manufactory Co.	Cane-seat chairs, . .	50	-	-	-	Good, .	Repair safety device to elevator, .	Complied.	
Williams & Upham, . . .	Chairs and bent work.	20	-	-	-	Good, .	Guard main belt; safety device on elevator.	Complied.	
Wm. B. Pierce, . . .	Wooden chairs, . .	8	-	-	-	Good, .	Guard main belt, . . .	Complied.	
Geo. A. Stone, . . .	Telephone boxes, .	4	-	-	-	Good, .	Guard main belt, . . .	Complied.	
FITCHBURG.									
R. A. Leonard, . . .	Wooden boxes, . .	8	-	-	-	Fair, .	Guard rail to stairs, . .	Complied.	

Wm. A. Garro, . . .	Wooden boxes, . .	10	-	-	Good, . .	Box up belts; guard elevator well, .	Complied.
Fitchburg Worsted Co., . .	Worsted strings, . .	143	165	-	Good, . .	Repair safety device, . .	Complied.
L. H. Goodnow, . . .	Iron casting, . .	40	-	-	Fair, . .	Guard belts, . .	Complied.
HARDWICK.							
Geo. H. Gilbert Manufacturing Co., Mill No. 4.	Woollen yarn, . .	125	22	-	Good, . .	Procure school certificates, . .	Complied.
LEOMINSTER.							
Leominster Button Co., . .	Horn buttons, . .	25	5	-	Good, . .	Post time table, . .	Complied.
National Fibre Board Co., . .	Chair seats, . .	23	-	-	Good, . .	Post time table, . .	Complied.
B. F. Blodgett & Co., . .	Horn goods, . .	42	7	-	Good, . .	Guard fly wheel, . .	Complied.
W. S. Reed Toy Co., . .	Trunks and toys, . .	46	7	-	Good, . .	Procure school certificates, . .	Complied.
F. A. Whitney Carriage Co., . .	Baby carriages, . .	100	15	-	Good, . .	Guard fly wheel, . .	Complied.
WINCHENDON.							
Daniel W. Bennett, . .	Chair seats, . .	9	-	-	Good, . .	New safety device, . .	Complied.
Mason & Parker, . .	Bit braces, . .	39	4	-	Good, . .	Post time table, . .	Complied.
Wm. Brown & Son, . .	Pails, . .	68	2	-	Good, . .	Guard fly wheel and engine crank, . .	Complied.

REPORT OF INSPECTOR TIERNEY.

SIR:— I hereby submit my annual report, giving the results of my observations of the workings of the several factory laws in the district assigned to me. There is no radical change to note, but the same general progress and improvement that have been reported in years gone by relative to the operations of the various acts have continued through the year just past.

I have given close attention to the sanitary condition of the factories and workshops in this district, having had occasion to issue several orders for additional water-closets, better sanitary arrangements, with flush bowls and automatic tanks. In most of the old mills in this district, where there were only two water-closets on each floor and the number of employees for each closet was over ninety, I have ordered two closets on each floor for each sex, with a brick wall not less than six inches thick dividing the closets, so that there cannot be any cutting through; and this arrangement gives the best of satisfaction to employers. All orders of this kind have been complied with or are in process of construction.

I am glad to state that in relation to the employment of children the manufacturers are careful not to employ any under fourteen years of age, and in this district there are not over fifteen thus employed. I can safely say by another year we will have but few thus employed. I have found none without school certificates.

The act in regard to the bolting or locking of doors in buildings in this district wherein operatives are employed so as to prevent free egress in case of fire during the hours of labor is generally complied with.

Elevators in this district I have found or have had placed in condition as regards safety devices, cables and gears, and there is not now, to my knowledge, one in my district that is not supplied with some form of safety device.

In regard to the fifty-eight-hour law I have had but few complaints of violation of same, except in Fall River, where I had to prosecute the Weetamoe, Union and Merchants' mills for violation of same, and all were convicted and fines imposed amounting to five hundred and ninety dollars. The mills in Fall River are running better time at present than they were ever before known to run. The treasurers of these mills do not want to run any overtime, and give such orders to their superintendents to run on time.

Section 12 of chapter 508 of the Acts of the year 1894, relating to the employment of women and minors in manufacturing estab-

ishments between ten o'clock at night and six in the morning, has not, so far as my observation has gone, been violated in my district.

The evening school laws in this district are very well lived up to, and enforced by our school boards and their officers and overseers. The difficulties heretofore encountered in the enforcement of this law with our non-English-speaking residents are lessened very much, as they understand the language and the laws better. I must here state that it would be impossible for an inspector to do much in this matter were it not for the effective co-operation of the superintendents of schools and truant officers.

Section 23 of chapter 481 of the Acts of the year 1895, as regards the guarding of dangerous machinery, such as shafting, gearing, set screws, cranks of engines, fly wheels and mule heads in cotton factories, is something that wants careful attention of an inspector, and it can be truthfully said that his work is never done. The number of accidents that happen each year, although the greater number are through carelessness, shows the wisdom of the State in compelling the employer to place every reasonable safeguard on and around them, and they have as a general thing recognized the danger to the help, and in most cases willingly comply with the orders of the inspector when dangerous parts are pointed out to them. In the old cotton factories of this district they are continually remodelling, and are replacing machinery from one room to another, and consequently they require the attention of the inspector to see that all dangerous and exposed parts of machinery are kept securely guarded.

In regard to the weavers' particulars bill I have according to orders had specifications posted in all the mills in this district, and must say they are giving the best of satisfaction.

In conclusion, I desire to say that my relations with all those whom I am called upon to deal with as inspector have been very pleasant, and the uniform courtesy with which I have been received has made my duties much more agreeable.

Summary of Work Performed.

Number of inspections made,	400
Number of orders issued,	306
Number of orders complied with,	306
Number of children between thirteen and fourteen years,	17
Number of children between fourteen and sixteen years,	3,226
Number of males employed,	28,197
Number of females employed,	24,658
Total number employed,	52,855

JOHN F. TIERNEY, *Inspector.*

DISTRICT No. 6,

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ATLEBOROUGH.								
T. L. Watkins, . . .	Jewelry, . . .	2	8	—	—	Good, . .	Post time notice, . . .	Complied.
Torrey Jewelry Co., . .	Jewelry, . . .	4	4	—	—	Good, . .	Post time notice, . . .	Complied.
Bats & Bacon, . . .	Jewelry, . . .	105	15	—	—	Good, . .	File school certificates; post time notice.	Complied.
W. & S. B. Blackinton, . .	Jewelry, . . .	114	92	—	1	Good, . .	Post time notice; file school certificate.	Complied.
Dagget & Clap, . . .	Jewelry, . . .	30	10	—	1	Good, . .	File school certificate, . . .	Complied.
Dolon & Co, . . .	Jewelry, . . .	30	7	—	6	Good, . .	File school certificates; post time notice.	Complied.
G. A. Dean & Co., . . .	Jewelry, . . .	19	6	—	1	Good, . .	File school certificate, . . .	Complied.
D. F. Briggs & Co., . .	Jewelry, . . .	45	30	—	—	Good, . .	Post time notice; box up pulleys and gears.	Complied.
Simes & Co., . . .	Jewelry, . . .	10	2	—	1	Good, . .	File school certificate, . . .	Complied.
Watson, Newell & Co., . .	Jewelry, . . .	100	100	—	—	Good, . .	Post time notice, . . .	Complied.
Mossberg Manufacturing Co., . .	Jewelry tools, . . .	160	15	—	—	Good, . .	Post time notice; file school certificate.	Complied.
J. W. Luther & Co., . . .	Pearl worker, . . .	15	2	—	—	Good, . .	Post time notice, . . .	Complied.
Attleborough Press, . . .	Job printing, . . .	5	2	—	—	Good, . .	Post time notice, . . .	Complied.
Bliss Bros., . . .	Jewelry, . . .	20	5	—	—	Good, . .	Post time notice, . . .	Complied.
A. F. Simons & Co., . . .	Jewelry, . . .	85	40	—	3	Good, . .	Post time notice; file school certificates.	Complied.
C. A. Witherell & Co., . .	Jewelry, . . .	37	18	—	—	Good, . .	Post time notice, . . .	Complied.

DISTRICT No. 6 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14.	14 to 16.			
SOUTH ATTLEBOROUGH.								
Wm. Capen & Co.,	Belting,	40	—	—	Good,	Put springs on hatchway doors,	Complied.	
White & Shaw,	Jewelry findings,	3	2	—	Good,	Post time notice,	Complied.	
Sadler & Bros.,	Jewelry,	2	10	—	Good,	Post time notice; file school certificate.	Complied.	
FAIRHAVEN.								
Atlas Tack Co.,	Tacks,	78	30	—	Good,	File school certificates,	Complied.	
Thatcher Bros,	Cut glass,	47	2	—	Good,	Post time notice; file school certificates.	Complied.	
PROVINCETOWN.								
Puritan Shirt Co.,	Men's white shirts,	6	104	—	Fair,	Post time notice; put in new water-closets.	Complied.	
FREETOWN.								
Crystal Spring Bleachery,	Bleaching and dyeing.	117	10	—	Good,	Post time notice; box up gears; file school certificates.	Complied.	
ATTLEBOROUGH FALLS.								
Stanley Bros.,	Jewelry,	8	4	—	Good,	Post time notice,	Complied.	
W. H. Bell & Co.,	Jewelry,	13	2	—	Good,	Post time notice,	Complied.	
W. M. Fisher & Co.,	Jewelry,	27	13	—	Good,	Post time notice,	Complied.	
V. H. Blackinton & Co.,	Jewelry,	16	12	—	Good,	Post time notice; file school certificates.	Complied.	
B. S. Freeman & Co.,								
W. G. Clarke & Co.,	Jewelry,	35	10	—	Good,	Post time notice,	Complied.	
	Jewelry,	22	3	—	Good,	Post time notice,	Complied.	

Mason Jewelry Co., . . .	Jewelry, . . .	20	5	-	-	Good, . .	Post time notice, . .	. . .	Completed.
Solomon Davidson, . . .	Jewelry, . . .	9	3	-	-	Good, . .	Post time notice, . .	. . .	Completed.
C. L. Barrows & Co., . .	Jewelry, . . .	10	5	-	-	Good, . .	Post time notice, . .	. . .	Completed.
Mason Box Co., . . .	Paper boxes, . . .	8	10	-	-	Good, . .	Post time notice, . .	. . .	Completed.
RAYNHAM.									
Zeno Kelly, . . .	Men's and boys' shoes, . . .	23	7	-	3	Good, . .	File school certificates, . .	. . .	Completed.
FALL RIVER.									
American Linen Co., . . .	Print cloths, . . .	425	500	-	74	Good, . .	Post specifications; box up pulleys, . .	. . .	Completed.
Anawan Manufacturing Co., . .	Print cloths, . . .	30	70	-	9	Good, . .	Post specifications; file school certificates	. . .	Completed.
American Printing Co., . . .	Printing calicoes, . .	250	300	-	23	Good, . .	Cover up gears; put ropes on elevator, . .	. . .	Completed.
Algonquin Printing Co., . . .	Printing calicoes, . .	80	10	-	10	Good, . .	Box up gears, . . .	. . .	Completed.
American Supply Co., . . .	Reed and harness, . .	11	11	-	-	Good, . .	Box up gears; repair safety device on elevator.	. . .	Completed.
A. E. Mantines, . . .	Bookbinding, . . .	1	2	-	-	Good, . .	Post time notice, . . .	. . .	Completed.
Barnaby Manufacturing Co., . .	Fine colored goods, . .	250	300	-	23	Good, . .	File school certificates, . .	. . .	Completed.
Barnard Manufacturing Co., . .	Specialties, . . .	180	200	-	39	Good, . .	File school certificates; post weavers' specifications.	. . .	Completed.
Border City Manufacturing Co., .	Print cloths, . . .	500	600	-	89	Good, . .	Post weavers' specifications, . .	. . .	Completed.
Chase Mills, . . .	Print cloths, . . .	200	300	-	42	Good, . .	File school certificates, . .	. . .	Completed.
Cornell Mills, . . .	Print cloths, . . .	220	250	-	49	Good, . .	Post time notice, . . .	. . .	Completed.
Coval & Osborn, . . .	Rope banding, . . .	14	1	-	8	Good, . .	File school certificates; box up gears, . .	. . .	Completed.
E. M. & G. Fraper, . . .	Paper cop tubes, . .	3	-	-	2	Good, . .	File school certificates, . .	. . .	Completed.
C. F. Shoer & Co., . . .	Dry goods, . . .	30	70	-	4	Good, . .	Post time notice, . . .	. . .	Completed.
David Heatley, . . .	Loom pickers, . . .	10	-	-	3	Good, . .	File school certificates, . .	. . .	Completed.
Davol Mills, . . .	Fancy cotton goods, . .	55	275	-	35	Good, . .	Post time notice; file school certificates; post weavers' specifications.	. . .	Completed.
Durfee Mills, . . .	Print cloths, . . .	498	562	-	65	Good, . .	Provide more ventilation in cloth room.	. . .	Completed.

District No. 6 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
FALL RIVER — Continued.								
Douglass Bros.,	Paper cop tubes, .	9	10	—	10	Good, .	File school certificates, .	Complied.
Fall River Bobbin and Shuttle Co.,	Bobbins and shuttles.	170	—	—	20	Good, .	Post time notice; file school certificates.	Complied.
Flint Mills,	Cotton goods to order.	225	275	—	45	Fair, .	Repair hatchway; file school certificate; clean water-closets.	Complied.
Fall River Manufactory,	Print cloths, .	168	172	—	20	Good, .	Put gates in door on north end of mill.	Complied.
Fall River Bleachery,	Bleaching cotton goods.	190	45	—	9	Good, .	Box up pulleys and gears; guard crank on engine.	Complied.
Fall River Laundry,	Steam laundry, .	44	80	—	8	Good, .	Box up gears; repair safety device on elevator.	Complied.
Fall River Iron Works Co.,	Print cloths, .	735	960	—	74	Good, .	File school certificate; seats for women; guard crank on engines.	Complied.
Fall River Daily Herald,	Newspaper, .	26	6	—	2	Good, .	File school certificate,	Complied.
Globe Yarn Mills,	Cotton yarns, .	425	600	—	123	Good, .	Box up mule heads; put in two water-closets.	Complied.
Granite Mills,	Cotton goods to order.	550	600	—	66	Bad, .	New flush bowls and tanks in water-closets; guard crank on engine.	Complied.
George P. Fraper,	Paper boxes, .	2	7	—	1	Good, .	Post time notice; file school certificate.	Complied.
G. Fred Thomas,	Cigars,	9	—	—	2	Good, .	Post time notice; file school certificate.	Complied.

Hargraves Mill, No. 1,	Cotton goods to order.	220	280	—	42	Good, .	Post specifications in weave rooms,	Complied.
Hargraves Mill, No. 2,	Cotton goods to order.	185	190	—	23	Good, .	Box up mule heads; put railing around belt.	Complied.
John J. Haywood,	Cotton banding,	7	17	2	6	Good, .	Post time notice; box up gears; designate water-closets.	Complied.
J. F. Nichols,	Top rolls, .	3	3	—	1	Good, .	File school certificates, .	Complied.
James Marshall,	Felt hats, .	198	220	—	4	Good, .	File school certificates, .	Complied.
J. H. Estes & Son,	Cotton twines, .	55	40	—	8	Good, .	File school certificates, .	Complied.
Kerr Thread Mills,	Fine cotton yarns,	200	240	—	75	Good, .	Guard set screws; put in seats for women.	Complied.
King Philip Mills,	Fine goods and lawns.	600	800	—	59	Good, .	Cover up gears on slashers, .	Complied.
Laurel Lake Mills,	Print cloths, .	285	200	—	13	Good, .	Seats for women; post specifications in weave rooms.	Complied.
Merchants Manufacturing Co.,	Print cloths, .	300	500	—	58	Good, .	Post specifications; put in seats for women.	Complied.
Mechanics Mills, Nos. 1 and 2,	Print cloths, .	250	300	—	49	Good, .	File school certificate; repair elevator.	Complied.
Metacomet Mills,	Print cloths, .	270	180	—	23	Good, .	Put railing in tower doorways; post specifications for weavers.	Complied.
Merchants Mill, No. 3,	Print cloths, .	250	250	—	21	Good, .	Post specifications in weave rooms; seats for women.	Complied.
Maple Street Laundry,	Steam laundry, .	1	20	—	1	Good, .	File school certificate, .	Complied.
Metallie Comb Manuf'g Co.,	Metallie combs, .	4	5	—	1	Good, .	Post time notice, .	Complied.
Narragansett Mills,	Colored jeans and sateens.	150	250	—	40	Good, .	Designate water-closets, .	Complied.
Osborn Mills,	Print cloths, .	350	450	—	34	Good, .	Post time notice, .	Complied.
Pocasset Mills,	Fine cotton goods,	335	370	—	58	Bad, .	Put new water-closets in Nos. 2 and 3 Mills.	—*

* Partly complied.

DISTRICT No. 6 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
FALL RIVER — <i>Concluded.</i> Richard Borden Manuf'g Co., .	Print cloths, .	300	500	—	49	Good, .	Put railing in front of crank on engine; repair elevator; file school certificate.	Complied.
Sam Fisk,	Job printer, .	6	4	—	5	Good, .	File school certificate,	Complied.
Sagamore Mills,	Print cloths, .	350	450	—	70	Good, .	Post specifications in weave room, .	Complied.
Seaconnet Mills,	Print cloths, .	250	450	4	36	Good, .	File school certificates; put seats in weave rooms.	Complied.
Shove Mills,	Print cloths, .	275	300	—	32	Good, .	File school certificates,	Complied.
Stafford Mills,	Print cloths, .	395	400	—	57	Good, .	Cover up gears; repair safety device on elevator.	Complied.
Stevens Manufacturing Co., .	Bed spreads, .	65	60	—	9	Good, .	Post specifications in weave rooms, .	Complied.
Tecumseh Mills,	Print cloths, .	200	300	—	34	Good, .	Repair safety device on elevator, .	Complied.
Troy C. & W. Manuf'g Co., .	Cotton goods to order.	165	215	—	27	Good, .	File school certificates,	Complied.
Robeson Mills,	Print cloths, .	100	200	—	14	Good, .	File school certificate; box up gears, .	Complied.
Union Cotton Manuf'g Co., .	Print and fine goods.	500	500	—	64	Good, .	Repair elevator; guard crank on engine.	Complied.
Union Belt Co.,	Belts,	30	2	—	—	Good, .	Post time notice,	Complied.
Slade Mills,	Print cloths, .	275	300	—	25	Fair, .	Repair elevator; post specifications, .	Complied.
National Laundry,	Steam laundry, .	8	12	—	—	Good, .	Box up gears,	Complied.
Mary S. Webster,	Loom harness, .	11	34	—	1	Good, .	Post time notice,	Complied.

Wampanoag Mills,	Print and fine goods.	300	500	—	45	Good, .	Post specifications in weave room, .	Completed.
Weetamoc Mills,	Print and odd counts.	280	120	—	35	Good, .	File school certificates, . . .	Completed.
C. M. G. Fraprie,	Paper cob tubes, .	3	—	—	2	Good, .	File school certificates, . . .	Completed.
SOMERSET.								
Somerset & Johnsonburg Manufacturing Co.	Enamelled paving brick.	42	—	—	4	Good, .	File school certificates, . . .	Completed.
MANSFIELD.								
B. Rumsey, .	Fine boots and shoes.	100	75	—	—	Good, .	Post time notice; designate water-closet.	Completed.
Coney & Co, . . .	Straw and felt hats,	76	230	—	—	Good, .	New rope on elevator; new springs on hatchway doors; railing on stairways.	Completed.
D. A. Spaulding, .	Jewelry, . . .	51	14	—	—	Good, .	Post time notice, . . .	Completed.
Cobb, Evans & Co., .	Jewelry, . . .	40	20	—	—	Good, .	Post time notice, . . .	Completed.
S. W. Cobb & Son, . .	Coffin trimmings,	6	4	—	—	Good, .	Post time notice, . . .	Completed.
CHARTLEY.								
W. A. Sturdy Manuf'g Co.,	Jewelry, . . .	16	12	—	5	Good, .	Post time notice, . . .	Completed.
Angle, Wetherell & Co., .	Jewelry, . . .	47	33	—	2	Good, .	Post time notice; file school certificate.	Completed.
NORTON.								
Norton Mill Co., . . .	Wool scouring, .	28	—	—	2	Good, .	Post time notice; box up pulleys, .	Completed.
A. A. Swett Manufacturing Co.,	Paper and wood boxes.	42	16	—	2	Good, .	Post time notice, . . .	Completed.

DISTRICT NO. 6 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Under 14.			14 to 16.				
		Males.	Females.						
NORTH EASTON.									
Welch, Brush & Co., . . .	Men's boots and shoes.	59	11	—	5	Good, .	Post time notice, .	Complied.	
Ames Shovel Works, . . .	Steel shovels, .	249	1	—	5	Good, .	Post time notice; box up gears; file school certificates.	Complied.	
SOUTH EASTON.									
Rose Heel Co., . . .	Artistic wood heels,	43	20	—	1	Good, .	Post time notice, .	Complied.	
NORTH ATTLEBOROUGH.									
O. M. Draper, . . .	Jewelry, .	27	38	—	—	Good, .	Post time notice, .	Complied.	
E. J. Richards, . . .	Jewelry, .	62	8	—	—	Good, .	Post time notice, .	Complied.	
H. D. Merrett, . . .	Jewelry, .	45	15	—	—	Good, .	Post time notice, .	Complied.	
T. J. Smith, . . .	Jewelry, .	49	20	—	1	Good, .	Post time notice, .	Complied.	
John P. Bonnett, . . .	Jewelry, .	6	2	—	—	Good, .	Post time notice, .	Complied.	
G. W. Shever, . . .	Jewelry, .	25	25	—	—	Good, .	Post time notice, .	Complied.	
Thomas Totton, . . .	Jewelry, .	40	45	—	—	Good, .	Post time notice, .	Complied.	
Rilly, French & Hefteron, . . .	Jewelry, .	18	7	—	—	Good, .	Post time notice, .	Complied.	
F. S. Gillbert, . . .	Jewelry, .	25	5	—	—	Good, .	Post time notice, .	Complied.	
S. E. Fisher & Co., . . .	Jewelry, .	35	5	—	—	Good, .	Post time notice; box up pulleys, .	Complied.	
Sandland, Capron & Co., . . .	Jewelry, .	32	13	—	—	Good, .	Post time notice, .	Complied.	
D. D. Coddling & Co., . . .	Jewelry, .	18	2	—	—	Good, .	Post time notice, .	Complied.	
E. T. Franklin & Co., . . .	Jewelry, .	52	8	—	—	Good, .	Post time notice, .	Complied.	

R. Blackinton & Co.,	Jewelry,	37	8	1	Good,	Post time notice; box up pulleys,	Completed.
G. R. Webster,	Jewelry,	38	7	2	Good,	Post time notice; file school certificates.	Completed.
Codding Bros.,	Jewelry,	20	10	—	Good,	Post time notice,	Completed.
Cutter & Grandby,	Jewelry,	16	2	—	Good,	Post time notice,	Completed.
H. A. Curtis & Co.,	Jewelry,	43	2	—	Good,	Post time notice; box up pulleys,	Completed.
Young & Stermes,	Jewelry,	33	12	—	Good,	Post time notice,	Completed.
H. H. Bliss & Co.,	Jewelry,	24	6	—	Good,	Post time notice,	Completed.
J. B. Maintine,	Jewelry,	6	9	—	Good,	Post time notice,	Completed.
J. F. Lynch,	Jewelry,	6	8	—	Good,	Post time notice,	Completed.
B. B. Braday & Co.,	Jewelry,	15	10	—	Good,	Post time notice,	Completed.
J. O. Copeland & Co.,	Jewelry,	7	5	—	Good,	Post time notice,	Completed.
Crandall & Pardee,	Jewelry,	13	5	—	Good,	Post time notice,	Completed.
D. R. Draper,	Steam laundry,	3	7	—	Good,	Post time notice; designate water-closets.	Completed.
H. F. Barrowes & Co.,	Jewelry,	60	40	—	Good,	Post time notice,	Completed.
SANDWICH.							
Cape Cod Decorating Co.,	Glass decorating,	6	9	—	Good,	Post time notice,	Completed.
N. Packwood,	Glass cutting,	21	2	—	Good,	Post time notice,	Completed.
Union Braiding Co.,	Silk braids,	10	16	1	Good,	Post time notice; file school certificate.	Completed.
Sandwich Card Co.,	Shipping cards,	2	2	—	Good,	Post time notice,	Completed.
WELLFLEET.							
Wetherell & Watters,	Razor strops,	1	4	—	Good,	Post time notice; box up belts,	Completed.
TAUNTON.							
Anthony & Cushman,	Tacks and shoe nails.	30	7	7	Good,	Put new frame on elevator,	Completed.
H. L. Cushman,	Shoe buttons,	7	15	7	Good,	Post time notice,	Completed.

DISTRICT No. 6 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition	Orders Given.	Compliances.	
		Males.	Females.	Under 14. 14 to 16.				
TAUNTON — <i>Concluded.</i>								
Elizabeth Pool Mills, . . .	Cotton flannel, . . .	40	150	—	14	Good, . . .	File school certificates, . . .	Complied.
Cohannet Mills, . . .	Cotton yarns, . . .	255	225	—	38	Good, . . .	Clean and whitewash closets, . . .	Complied.
Canno River Mills, . . .	Cotton yarns, . . .	70	95	—	12	Good, . . .	File school certificates, . . .	Complied.
Namasket Mills, . . .	Cotton yarns, . . .	160	80	—	28	Good, . . .	File school certificates, . . .	Complied.
Whittenton Manufacturing Co., . .	Colored cotton cloth.	600	600	—	65	Fair, . . .	Box up pulleys; put automatic gates on elevator hatchways; post specifications.	Complied.
W. S. Cook, . . .	Pearl buttons, . . .	9	4	—	2	Good, . . .	Post time notice; file school certificates.	Complied.
Eagle Mills, . . .	Print cloths, . . .	23	80	2	10	Bad, . . .	Cover up gears; new gates on elevator.	Complied.
D. D. White, . . .	Men's and boys' shoes.	38	12	—	—	Good, . . .	Post time notice, . . .	Complied.
D. A. Trefenthen, . . .	Brass foundry, . . .	18	—	—	—	Good, . . .	Put safety device, . . .	Complied.
Morton Bros., . . .	Steam laundry, . . .	3	25	—	12	Good, . . .	Post time notice, . . .	Complied.
Taunton Gazette, . . .	Newspaper, . . .	15	10	—	2	Good, . . .	Post time notice, . . .	Complied.
A. Field & Son, . . .	Tacks, . . .	150	50	—	10	Good, . . .	File school certificates, . . .	Complied.
Mason Machine Works, . . .	Cotton machinery, . . .	339	—	—	10	Good, . . .	Post time notice; file school certificates.	Complied.
Reed & Barton, . . .	Silverware, . . .	373	50	—	5	Good, . . .	File school certificates, . . .	Complied.
John S. Sampson, . . .	Job printing, . . .	3	2	—	2	Good, . . .	File school certificates, . . .	Complied.

Taunton Locomotive Co., . . .	Printing presses, . . .	260	—	5	Good, . .	Post time notice, . . .	Complied.
Pool, Rotch & Co., . . .	Silverware, . . .	13	1	3	Good, . .	File school certificates, . . .	Complied.
NEW BEDFORD.							
Acushnet Mills, . . .	Fine cotton goods, . . .	400	600	—	Fair, . .	Clean and whitewash closets; repair safety device on elevator; file school certificates.	Complied.
Bennett Manuf'g Corporation, . .	Fine cotton yarns, . . .	250	250	—	Good, . .	File school certificates; put in new water-closets.	Complied.
Bristol Manufacturing Co., . .	Fine cotton goods, . . .	276	309	—	Good, . .	Post specifications, . . .	Complied.
City Manuf'g Corporation, . . .	Fine cotton yarns, . . .	250	300	—	Good, . .	Put in two new water-closets, . .	Complied.
Columbia Spinning Corporation, .	Fine cotton yarns, . . .	110	150	—	Good, . .	Post time notice; remove set screws, .	Complied.
Coffin Bros., . . .	Paper boxes, . . .	4	14	—	Good, . .	File school certificates, . . .	Complied.
City Steam Laundry, . . .	Steam laundry, . . .	5	10	—	Good, . .	Post time notice, . . .	Complied.
Evening Standard, . . .	Newspaper, . . .	60	7	—	Good, . .	Put railing in front of crank on engine; box up pulleys on printing press.	Complied.
Grinnell Manuf'g Corporation, . .	Fine cotton goods, . . .	350	450	—	Good, . .	File school certificates, . . .	Complied.
Hathaway Manufacturing Co., . .	Fine cotton goods, . . .	424	438	—	Good, . .	Post time notice; file school certificates; remove set screws; put railing around pulleys.	Complied.
Howland Mills, . . .	Fine cotton yarns, . . .	284	265	—	Good, . .	Repair safety device on elevator; remove set screws.	Complied.
Hedge, Lewis & Co., . . .	Shoe buttons, . . .	10	7	—	Good, . .	File school certificates, . . .	Complied.
Polomska Mills, . . .	Fine cotton goods, . . .	500	600	—	Bad, . .	Put in new water-closets; remove set screws.	Complied.
New Bedford Manuf'g Co., . . .	Fine cotton yarns, . . .	210	190	—	Good, . .	Repair elevator, . . .	Complied.
Pierce Manuf'g Corporation, . . .	Fine cotton goods, . . .	250	300	—	Good, . .	Post time notice, . . .	Complied.
Oneka Woollen Mill, . . .	Woolen dress goods, . . .	95	65	—	Good, . .	Cover set screws; file school certificates.	Complied.
Rotch Spinning Corporation, . . .	Fine cotton yarns, . . .	288	102	1	Good, . .	Repair eye bolt on elevator, . . .	Complied.

DISTRICT No. 6 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
NEW BEDFORD — <i>Concluded.</i>								
Wamsutta Mills, . . .	Cotton cloth, .	1,113	917	—	111	Good, .	File school certificates; repair elevator.	Complied.
Morse Twist Drill Co., .	Twist drills, .	255	25	—	—	Good, .	Box up pulleys; cover up gears; designate water-closets.	Complied.
Tabor Art Publishing Co., .	Pictures, . . .	105	35	4	18	Good, .	Box up pulleys; designate water-closets.	Complied.
T. M. Denham, . . .	Men's white shirts, .	7	95	—	4	Good, .	Put railing on stairways, .	Complied.
D. A. Snell, . . .	Fancy crackers, .	33	16	—	—	Good, .	Put in new elevator; repair large one.	Complied.
Pairpoint Manuf'g Co., .	Silver and glass ware	520	80	3	17	Good, .	Guard main belt; file school cards; post time notice.	Complied.
Pierce & Bushnell, . . .	Art publishers, .	38	7	—	5	Good, .	File school certificates, . . .	Complied.
William R. West, . . .	Top rolls, . . .	13	3	—	—	Good, .	Post time notice; designate water-closets.	Complied.
New Bedford Steam Laundry, .	Steam laundry, .	6	25	—	—	Good, .	Post time notice, . . .	Complied.
Reliance Manufacturing Co., .	Spinning rings, .	6	4	—	3	Good, .	File school certificates, . . .	Complied.
N. B. Button Co., . . .	Shoe buttons, .	4	5	—	—	Good, .	Post time notice, . . .	Complied.

REPORT OF INSPECTOR KNIGHT.

SIR:—In connection with my tabulated report I would respectfully submit a brief summary of the laws intrusted to me to enforce in District No. 7, which comprises Hampden and Hampshire counties.

There is a manifest disposition on the part of the employers in manufacturing and mercantile establishments to comply cheerfully with the requirements of the statutes regarding the employment of labor, including the so-called fifty-eight-hour law. No complaint has been received of any violation of this statute the past year.

Chapter 144, Acts of 1895, an act requiring specifications to be furnished to persons employed in cotton, worsted and woollen factories, it gives me pleasure to report, is working satisfactorily in this district. Some of the manufacturers affected by this law were at first inclined to look upon it with disfavor or as an unwarrantable interference with their business, while others could see no objection to its enforcement, and readily complied with its requirements.

Chapter 508, Acts of 1894, relating to the employment of children under sixteen years of age in factories, workshops and mercantile establishments, I am satisfied, after careful inspection and observation, is each year being better complied with, largely from the fact that the parents as well as the employers are becoming more familiar with the law and its benefits and enforcement. The parents for these reasons see the necessity of procuring a certificate before the child can obtain employment, and in many cases secure the same before making the application. Each year brings a marked decrease in the number employed under fourteen years of age, and in no case has there been found a child under thirteen employed in any factory or workshop in violation of the law.

Section 24, chapter 508, Acts of 1894, an act relating to the employment of minors who cannot read or write in the English language, requires much attention. There are four cities and two large towns in my district where evening schools are maintained. Such schools during the last year were well attended, and bid fair to have as good attendance, if not better, this year. I am satisfied that this law is better appreciated by all concerned, and no one can deny its elevating effect in making better citizens.

While the sanitary condition of our factories is not all that

could be desired, there has been a marked improvement during the past few years. I have had occasion during the year to give several orders for improvements, and also additional sanitaries for employees, all of which have been complied with. There has been occasion to issue several orders in the past year for better ventilation in factories, where in my judgment dust was generated and inhaled to such an extent as to be injurious to persons employed therein. Such orders have been complied with, or are in process, at the present time.

Section 23, chapter 481, which relates to the guarding of dangerous machinery, such as the deadly set screws, gearing, fly wheels, shafting under sewing-tables, etc., necessarily requires much time and careful consideration, as constant changes are being made in the factories. As a general thing, the manufacturers and superintendents appreciate, and try to observe, the requirements of this law; but I regret to say that in some cases, when their attention is called to some dangerous machinery, they reply, "Well, we're insured against accidents." In all cases where dangerous machinery has been found and could be guarded, orders have been given and changes have been made.

As you will observe by my tabulated report, which I submit herewith, I have inspected a number of elevators during the year, and have served a number of notices to provide self-closing latches or gates, new cables, etc. Most of the elevators I have found in good condition as regards safety appliances. No serious accident has occurred this year, that I am aware of, from the giving way of the hoisting apparatus or any of its machinery. I am convinced that there is a steady improvement in this direction, and a better understanding on the part of the employer of the danger of allowing children to run dangerous machinery.

The law regarding the locking or bolting of doors during the hours of labor is complied with very generally. Only one case of its violation has been brought to my notice during the year.

Referring to chapter 136, Acts of 1895, an act relating to the heating of street railroad cars, in accordance with your instructions, dated October 2, I visited the officials of the various street railroad companies in my district, and found that arrangements had been made to comply with the law in every particular.

I have had occasion to serve several notices to provide seats for the use of females when not engaged in their active duties.

I enclose herewith a statement of the number of inspections made, number of children under sixteen years of age, number of orders issued and number of males and females employed.

Number of inspections made,	375
Number of orders issued,	147
Number of compliances,	143
Number of children employed between thirteen and fourteen years,	18
Number of children employed between fourteen and sixteen years,	1,277
Number of females employed,	13,659
Number of males employed,	22,142
Total number of males and females employed, . . .	35,801

DISTRICT No. 7,

JOHN L. KNIGHT, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.		
AGAWAM.							
Worthy Paper Co., . . .	Loft-dried paper, .	34	38	-	-	Fair, . Guard shaving tub; provide seats for females in rag room.	Complied.
AMHERST.							
Geo. B. Burnett & Son, . .	Straw hats, . . .	48	52	-	-	Fair, . Provide self-closing gates to the openings of elevator well; safety device on elevator car on hand elevator; repair gates to elevator opening on elevator in main building.	Complied.
CHESTER.							
Crystal Mining & Milling Co., .	Quartz, . . .	16	-	-	-	Fair, . Exhaust fans to be provided to remove dust from work room.	-
CHICOPEE.							
Dwight Manufacturing Co., .	Cotton goods, .	686	885	-	98	Good, . Repair gates to elevator openings, known as the picker room elevator.	Complied.
Dana S. Courtney, . . .	Bobbins, . . .	20	-	-	-	Good, . Post legal notice in work room, .	Complied.
Jacobs Steam Print, . . .	Printing, . . .	3	1	-	-	Good, . Post time tables in work rooms; guard fly wheel to engine.	Complied.
Jerome W. Doten, . . .	Athletic goods, .	2	9	-	-	Fair, . Post time tables in work rooms; better sanitary arrangements.	Complied.
Lamb Manufacturing Co., . .	Bicycles, . . .	460	4	-	-	Good, . Provide exhaust fans in blazing room.	Complied.

Overman Wheel Co., . . .	Bicycles, . . .	700	60	—	2	Good, . .	Post legal notices in workshop where females and minors are employed.	Complied.
Page Needle Co., . . .	Latch needles, . . .	17	12	—	—	Good, . .	Post legal notices in work rooms, . .	Complied.
Taylor & Bromely, . . .	Ladies' underwear, . . .	23	33	—	—	Good, . .	Post time tables in work rooms, . .	Complied.
CUMMINGTON.								
L. L. Brown Paper Co., . . .	Loft-dried paper, . . .	12	10	—	—	Good, . .	Box belt running through floor in engine room.	Complied.
EASTHAMPTON.								
Easthampton Elastic Web Co., . . .	Elastic goring and webbing.	15	5	—	1	Fair, . .	Provide railing for fly wheel and engine; file certificate for minor.	Complied.
Easthampton Spinning Co., . . .	Cotton yarn, . . .	66	48	—	7	Fair, . .	Guard belts in cone room; guard shafting under sewing-tables; file certificates for minors.	Complied.
Glendale Elastic Fabric Co., . . .	Elastic fabric, . . .	60	190	—	2	Fair, . .	Closets to be kept clean, . . .	Complied.
Nashawameek Manuf'g Co., No. 1, . . .	Elastic goods, . . .	55	140	1	16	Good, . .	Discharge one minor, . . .	Complied.
Norwood Knitting Co., . . .	Knit underwear, . . .	3	37	—	1	Fair, . .	Repair hatches to elevator openings, . .	Complied.
Easthampton News Co., . . .	Printing and publishing.	9	3	—	4	Fair, . .	Post time tables, . . .	Complied.
ENFIELD.								
Enfield Manufacturing Co., . . .	Satinets, . . .	22	15	—	2	Fair, . .	File certificate for minor, . . .	Complied.
HOLYOKE.								
American Pad and Paper Co., . . .	Paper blocks and ruling.	11	43	—	1	Fair, . .	File certificate for minor, . . .	Complied.
Beebe & Holbroke Co., . . .	Loft-dried paper, . . .	265	97	—	1	Good, . .	Guard belts in finishing room, . .	Complied.
Buchannon, Bolt & Co., . . .	Wire cloth, . . .	41	9	1	1	Fair, . .	Post time tables in work rooms, . .	Complied.

DISTRICT No. 7 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
HOLYOKE — <i>Concluded.</i>								
Conn. River Paper Co., . . .	Writing paper, . .	44	59	—	1	Fair, .	Guard belts running through the floor near dynamos in engine room, also belt near rotary bleacher; provide new cable for rag-room elevator.	—*
Chadwick Plush Co., . . .	Velour plushes, .	45	25	—	5	Fair, .	Provide receptacle for combustible material.	Complied.
Connor Bros.' Bigelow Street Mill.	Woollen goods, .	64	17	—	3	Fair, .	Additional protection to elevator openings.	Complied.
Connor Bros.' N. Y. Mill, . .	Woollen goods, .	125	75	—	10	Fair, .	Remove obstructions from windows leading to fire-escape in fourth story.	Complied.
Caffer Cigar Co., . . .	Cigars, . .	12	2	—	1	Fair, .	Post legal notices in work room, .	Complied.
Eureka Ruling and Binding Co.,	Bookbinding, . .	19	22	—	2	Fair, .	File certificates for minors, . .	Complied.
Geo. R. Dickinson Paper Co., . .	Book paper, . .	130	60	—	—	Fair, .	Provide new cable to the elevator known as the stock elevator.	Complied.
Geo. C. Gill Paper Co., . . .	Book paper, . .	72	83	—	2	Fair, .	Provide additional water-closets for females.	Complied.
Holyoke Paper Co., . . .	Loft-dried paper, .	89	126	—	—	Good, .	Rail shaving tub; provide seats for females in rag room.	Complied.
National Blank Book Co., . . .	Blank books, . .	45	70	—	13	Good, .	Provide new cable to the elevator in main building and east tower.	Complied.
J. F. T. McDonald, . . .	Paper finishing, .	6	7	—	2	Fair, .	File certificate for minors, . .	Complied.

Jenkins Rubber Co., . . .	Rubber goods, . . .	61	—	—	7	Fair, .	Set screws in collars on shafting near pulleys or hangers to be made flush with collars, or securely guarded.	Complied.
Merrick Thread Co., No. 1,	Cotton thread, . . .	245	414	—	52	Fair, .	Better sanitaries, . . .	Complied.
Merrick Thread Co., No. 2,	Cotton thread, . . .	110	132	—	37	—†	Water-closet in spring department kept clean.	Complied.
Massachusetts Screw Co., .	Screws, . . .	30	4	—	—	Fair, .	Additional water-closet for males on first and second floors.	Complied.
Parsons Paper Co., No. 2, .	Bond and ledger paper.	68	132	—	1	—†	Provide new cable to elevator known as the finishing-room elevator.	Complied.
Powers Paper Co., . . .	Paper and envelopes.	25	55	—	8	Good, .	File certificate for minors, . .	Complied.
Riverside Paper Co., No. 1,	Writing paper, . . .	142	190	—	1	Fair, .	Guard shaving tub, . . .	—
Seymour Cutlery Co., . . .	Sheep shears, etc., . .	70	—	—	7	—†	Provide exhaust fans in buffing room; file certificate.	Complied.
Smith, Wilson & Sears Paper Co.	Glazed and lithographers' paper.	8	7	—	—	Good, .	Post legal notices; box belt running through floors.	Complied.
Sanitary Laundry, . . .	Laundry, . . .	16	—	—	1	Fair, .	Post legal notices in work room, .	Complied.
Valley Paper Co., . . .	Writing paper, . . .	59	102	—	—	Fair, .	Repair elliptical spring on stock elevator; guard set screws; provide seats for females in rag room.	Complied.
White Paper Box Co., . . .	Paper boxes, . . .	5	16	—	1	Good, .	Post legal notices in work rooms, .	Complied.
Keating Wheel Co., . . .	Bicycles, . . .	177	3	—	3	Good, .	File certificates, . . .	Complied.
Craig & Brooks, . . .	Wire cloth, . . .	10	1	—	1	Fair, .	Post legal notices in work room, .	Complied.
National Steam Laundry, .	Laundry, . . .	3	2	—	—	Fair, .	Post legal notices in work room, .	Complied.
Standard Steam Laundry, .	Laundry, . . .	4	3	—	—	Good, .	Post legal notices in work room, .	Complied.
Holyoke Steam Laundry, . .	Laundry, . . .	3	7	—	—	Good, .	Post legal notices in work room, .	Complied.
Chemical Paper Co., . . .	Manila paper, . . .	214	1	—	5	Fair, .	Railing to be placed in front of bleachers.	Complied.

* Complied in part.

† Not good.

‡ Excellent.

DISTRICT No. 7 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LUDLOW.								
Ludlow Manufacturing Co.,	Corded goods,	656	418	11	100	Fair,	File certificates for minors,	Complied.
MONSON.								
R. M. Reynolds,	Straw goods,	60	100	—	1	Bad,	Better sanitary arrangements in basement.	Complied.
Flint's Building and Construction Co.	Granite,	200	—	—	—	—	File certificate for minor,	Complied.
NORTHAMPTON.								
Florence Furnishing Co.,	Caskets,	33	5	—	—	Fair,	Guard spur gear on wood planer and projecting set screws in collar on shafting in basement.	Complied.
J. N. Leonard Manuf'g Co.,	Silk goods,	31	110	—	5	Good,	Guard spur gears,	Complied.
Northampton Steam Laundry,	Laundry,	3	6	—	1	Fair,	File certificate for minor,	Complied.
P. H. Chew,	Bookbinding	3	1	—	—	Fair,	Post legal notices in work room,	Complied.
Day's Brickyard,	Bricks,	25	—	—	1	—	File certificate for minor,	Complied.
G. N. Lucia,	Picture frames,	3	1	—	1	Good,	File certificate for minor,	Complied.
Crystal Emery Wheel Co.,	Emery wheels,	5	—	—	—	Fair,	Guard set screws in collars on shafting.	Complied.
Central Oil Gas Stove Co.,	Oil gas stoves,	125	—	—	3	Good,	File certificates for minors,	Complied.

PALMER. Boston Duck Co., . . .	Cotton goods, . . .	285	176	-	15	Fair, . .	Set screws in collars on washer to be made flush with collar or otherwise securely guarded.	Complied.
Palmer & Munson Electric Light Co. Thorndike Mill, No. 1, . . .	Electric light, . . . Cotton ticking, . . .	6 70	- 68	- -	- 19	Good, . . Fair, . .	Box main belt running from main driving pulley near floor. Provide cable for elevator in lower mill.	Complied. Complied.
RUSSELL. Fairfield Paper Co., . . .	Writing paper, . . .	72	78	-	-	Fair, . .	New cable to the elevator; seats in rag room to be provided; guard cutter in rag room.	Complied.
SOUTH HADLEY. Glasgow Manufacturing Co., . . .	Dress goods, . . .	175	75	-	18	-*	Floor in spinning room to be kept clean.	Complied.
Stony Brook Paper Mill, . . .	Manila paper, . . .	7	-	-	-	Fair, . .	Guard crank to engine; set screws on shafting made flush with collar.	Complied.
SPRINGFIELD. Agawam Manufacturing Co., . . .	Knit underwear, . . .	25	60	-	4	Fair, . .	Guard shafting under sewing-tables, Provide additional water-closet for females; repair elevator gates.	Complied. Complied.
A. N. Mayo & Co., . . .	Paper stock, . . .	6	14	-	-	-†	Provide new wire cable to elevator; post legal notices	Complied.
Bay State Corset Co., . . .	Corsets, . . .	40	200	-	12	Good, . .	Set screw on fly wheel to paper cutter to be guarded.	Complied.
Charles R. Kaplinger, . . .	Printing and book-binding. Glazed paper, . . .	9 4	5 -	- -	- -	Fair, . . Fair, . .	Guard set screws on shafting, . . .	Complied.
Cashin Card and Paper Co., . . .	Brass goods, . . .	120	1	-	-	Fair, . .	Provide exhaust fan in buffing room, File certificate for minor; post time tables in work room; designate water-closets.	Complied.
E. Stebbins Manufacturing Co., . . .	Eyelets, . . .	15	15	-	1	Fair, . .		Complied.
Fast Color Eyelet Co., . . .								
Hodges Fiber Co., . . .	Carpets, . . .	10	10	-	-	Fair, . .	Post legal notices in work room, .	Complied.

* Not good.

† Not sufficient.

DISTRICT NO. 7 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14.	14 to 16.			
SPRINGFIELD — Concluded.								
Holyoke Card and Paper Co.,	Glazed paper,	98	27	—	—	Good,	Guard fly wheel and crank to engine and set screws in collars on shafting; post time tables; designate water-closets.	— *
Hay and Storage Co.,	Goods stored,	3	—	—	—	Fair,	Repair gates to elevator openings,	Complied.
L. L. Fitts,	Stairs,	4	—	—	—	Good,	Repair gates to elevator openings,	Complied.
Morgan Envelope Co.,	Envelopes,	53	109	—	2	— †	Better sanitarries,	Complied.
Milton, Bradley & Co.,	Toys,	97	19	1	2	Good,	File certificate for minor,	Complied.
Merritt Manufacturing Co.,	Typewriters,	31	42	—	2	Good,	Designate water-closets,	Complied.
National Needle Co.,	Needles,	119	60	—	13	Good,	File certificate for minor,	Complied.
P. P. Kellogg & Co.,	Envelopes,	26	56	—	1	Good,	Provide new cable to the elevator in Corset Company's building; protect elevator openings to elevator well in new building; doors to be kept unlocked during working hours.	Complied.
Mill River Manufacturing Co.,	Bed quilts,	4	14	—	—	Good,	Designate water-closets; post time tables; place water pails in work room.	Complied.
Springfield Knitting Co.,	Knit goods,	7	39	—	—	Fair,	Guard shafting under sewing-tables,	Complied.
Standard Thread Manuf'g Co.,	Thread,	15	10	—	3	Good,	Guard shafting running the automatic winding machines.	—

Springfield Webbing Co.,	Webbing, .	23	15	—	8	Good, .	File certificates for minor, .	Complied.
Troy Custom Laundry, .	Laundry, .	4	6	—	1	Good, .	Provide certificate for minor, .	Complied.
Warwick Cycling Co., .	Bicycles, .	220	—	—	1	Good, .	Provide exhaust fans in blazing and pickling rooms.	—*
Waltham Watch Tool Co.,	Watch tools, .	18	2	—	—	Fair, .	Guard set screws in collars on shafting; post time tables in work rooms.	Complied.
Wilder & Puffer, .	Store house, .	4	—	—	—	Good, .	Gates to the elevator to be repaired,	Complied.
W. S. Marsh & Son, .	Planing mill, .	5	—	—	—	Fair, .	Repair gates to the elevator openings,	Complied.
Acme Laundry, .	Laundry, .	1	7	—	1	Fair, .	Post time table in work room; file certificate for minor.	Complied.
J. P. Walls, .	Waste, .	4	—	—	1	Fair, .	File certificate, .	Complied.
Philip H. Potter, .	Doors, sashes and blinds.	100	—	—	2	Good, .	Railing placed around fly wheel to engine; guard shafting and under wheel to band saw.	Complied.
Springfield Box and Novelty Co.,	Boxes and novelties.	10	4	—	—	Good, .	Designate water-closets for females,	—
Hodges Fiber Carpet Co., .	Carpets, .	22	23	—	—	Good, .	Protect the main driving pulley in the basement, and belts running from the countershaft to winding machines.	Complied.
WESTFIELD.								
American Whip Co., .	Whips, .	94	50	—	3	Fair, .	Post time tables in work room, .	Complied.
Atlantic Whip Co., .	Whips, .	3	2	—	—	Fair, .	Post legal notices, .	Complied.
Eastern Cigar Co., .	Cigars, .	22	6	—	—	Good, .	Post legal notices, .	Complied.
Foster Machine Co., .	Machinery, .	60	—	—	1	Good, .	Post time tables in work room, .	Complied.
Johnson & Co., .	Church organs, .	20	—	—	—	Good, .	Guard fly wheel to engine by placing properly constructed railing around the same.	Complied.
Mesick Bros., .	Whips and lashes, .	4	6	—	—	Good, .	Post time tables in work room, .	Complied.

* Complied in part.

† Not good.

DISTRICT No. 7 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14.	14 to 16.			
WESTFIELD — Concluded.								
New England Whip Co.,	Whips,	26	8	—	Good,	Post time tables in work room,	Complied.	
Springdale Paper Co.,	Fine writing paper.	36	39	—	Fair,	Rail shaving tub; provide seats for females in rag room.	Complied in part.	
Textile Manufacturing Co.,	Casket hardware,	46	24	—	Good,	Set screws in collars on shafting near pulleys or hangers made flush with collar, or otherwise guarded	Complied.	
William Warren Thread Co.,	Thread,	24	18	—	Good,	Post legal notices in work room; designate water-closets; guard opening to elevator in basement.	Complied.	
WEST SPRINGFIELD.								
Mitteneague Paper Co.,	Fine writing paper,	38	57	—	Good,	File certificates for minors; provide seats in rag room for females.	Complied.	
Southworth Co.,	Loft-dried paper,	35	65	—	Good,	Guard shaving tub; provide seats for females in rag room.	Complied.	
Boston and Albany R.R. Shops,	Repair shop,	250	—	—	Good,	Rail fly wheel and belts in engine room, stairways and drop pit; guard belts in shaft gallery.	Complied.	
BLANDFORD.								
W. C. Higgins & Son,	Baskets,	8	—	—	Good,	File certificate for minor,	Complied.	
WALES.								
Barkley Woollen Mill,	Woollen goods,	65	10	—	Fair,	Box main driving belt in weaving room, near entrance.	Complied.	
Excelsior Woollen Mills,	Woollen goods,	56	15	—	Fair,	File certificates for minors,	Complied.	

REPORT OF INSPECTOR PUTNAM.

SIR: — I have the honor to submit to you the tabulated report of my work as inspector of factories and public buildings for the year. To summarize, I have made 337 factory inspections, on which I have issued 669 orders for the guarding of dangerous machinery, posting time tables, procuring certificates, repairing, cleaning or furnishing additional water-closets; inspected 160 elevators, upon which I have issued 29 orders; and made 391 visits to ascertain if orders had been complied with, investigating accidents, complaints and visiting evening schools.

There have been two fatal accidents in the district of which I now have charge, which are fully reported under the proper head.

There have been a number of complaints for the violation of section 11, chapter 508, Acts of 1894, better known as the fifty-eight-hour law. Upon investigation most of these were found to have no basis in fact, and only one case was thought of sufficient gravity to take action. In this case the parties were brought into court, pleaded guilty and paid the fine imposed. Care should be taken in reporting violations that there is at least some foundation for such complaints, as the inspector's time is too valuable to be taken up in chasing chimeras.

Most complaints which I am now receiving are for violations of the weekly payment law, which upon investigation are found to be correct, the manufacturers pleading ignorance of the law, and promising compliance. I give them fair warning, and so far I have had no second complaint.

Up to the present I have found employed but eighteen children between thirteen and fourteen years of age, showing that manufacturers realize that child labor is not profitable.

I find a large number of elevators with no one in charge, and run by whoever desires to use them; no way of signalling from one floor to another, but pull the shipper rope and send the elevator up or down, regardless of whether any one else is using it at the time or not. This method, it seems to me, is a menace to life and limb and a source of danger to everybody concerned. I have recommended and urged the adoption of electric bells as a remedy and safeguard, but in the absence of any legislation have not felt at liberty to issue orders to provide communication between the floors.

The law in relation to reporting accidents to employees while at work in factories or mercantile establishments seems to be little known in my district. Proprietors consider that their duty is done

when they have reported such accidents to the insurance company, and that they have no further concern in the matter.

The law in relation to children's certificates is very generally complied with excepting during the vacation, when it is claimed not only by manufacturers but by superintendents of schools and school committees in some towns that such certificates are not required.

Dangerous unprotected machinery is always with us, and it is almost always the employee who objects to having it guarded so as to protect him from danger. I am insistent, however, that all machinery (when possible) shall be securely guarded. The matter of the deadly projecting set screws running on shafting is a case in point. "Nobody ever gets up there," is one of the reasons presented why there is no need of guarding them. This was said to me a few days ago by the foreman of a room in a large shoe factory; and he added, "Every man has strict orders not to get up there." I took him by the shoulders and turned him around, and there was one of his men standing on the bench trying to adjust a belt, and in very close proximity to a set screw which projected three-quarters of an inch, and running one hundred and fifty revolutions per minute. Comment is unnecessary.

Summary.

Factory inspections,	.	.	.	.	.	.	337
Elevator inspections,	.	.	.	.	.	.	160
Factory orders,	.	.	.	.	.	.	669
Factory compliances,	.	.	.	.	.	.	631
Elevator orders,	.	.	.	.	.	.	29
Elevator compliances,	.	.	.	.	.	.	28
Total number employed,	.	.	.	.	.	.	27,494
Females employed,	.	.	.	.	.	.	7,801
Males employed,	.	.	.	.	.	.	18,893
Number children thirteen to fourteen years,	.	.	.	.	.	.	18
Number children fourteen to sixteen years,	.	.	.	.	.	.	610
Factories closed or moved,	.	.	.	.	.	.	8

DISTRICT No. 8, EDWARD B. PUTNAM, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ABINGTON.								
King Bros.,	Boots and shoes, .	42	9	1	—	Good, .	Guard set screws, splitting and rolling machines; control power on sewing-machine shaft.	—
Cobb & Thompson,	Boots and shoes, .	55	25	—	—	Good, .	Guard set screws, rolling and splitting machines; control power on sewing-machine shaft	Complied.
W. S. O'Brien,	Pasted stock, .	22	13	—	2	Fair, .	Procure certificates; guard set screws, roller and splitter; repair safety.	Complied.
Kent & Bryant,	Overalls,	1	10	—	—	Good, .	Control power on sewing-machine shaft.	Moved.
E. L. Sprague & Co.,	Boots and shoes, .	35	15	—	—	Fair, .	Guard set screws, roller and splitter; control power on sewing-machine shaft.	—*
Abington Tack and Machine Co.,	Shoe tacks and fancy nails.	21	4	—	—	Fair, .	Guard set screws,	Complied.
Wm. E. Lyon,	Boots and shoes, .	40	10	—	1	Good, .	Guard set screws and rolling machine; procure certificate.	—†
Lewis A. Crossett,	Boots and shoes, .	120	30	—	1	Good, .	Guard set screws; control power on sewing-machine shaft; procure certificate.	Complied.

* Factory closed.

† Out of business.

DISTRICT No. 8 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ABINGTON — <i>Concluded.</i>								
Abington Mills,	Elastic goring, .	11	4	—	—	Good, .	Post time tables; designate water-closet.	Complied.
Abington Electric and Power Co.,	Electricity, . .	6	—	—	—	Good, .	Rail fly wheels, belt and pulley on generator.	—
Job O. Loring,	Lumber, . . .	6	—	—	—	Good, .	Guard set screws; box belts, . .	Complied.
AVON.								
L. G. Littlefield,	Boots and shoes, .	130	50	—	6	Good, .	Control power on sewing-machine shaft; guard set screws, roller and splitter.	Complied.
J. B. Lewis Co.,	Boots and shoes, .	60	20	—	2	Fair, .	Procure certificates; designate water-closet; guard set screws, coupling pins and splitter; rail crank shaft; control power on sewing-machine shaft; post legal time tables; door to fire-escape to be kept unlocked.	Complied.
John F. Foster & Son, . . .	Boots and shoes, .	22	3	—	—	Good, .	Guard roller and splitter; control power on sewing-machine shaft.	Complied.
BROCKTON.								
Packard & Field,	Boots and shoes, .	270	30	—	—	Good, .	Guard set screws, coupling pins and rolling machine.	Complied.

Brockton Co-operative Shoe Co.,	Boots and shoes, .	63	12	—	—	Good, .	Guard set screws, roller and skiver; box hoisting gear; control power on sewing-machine shaft.	Complied.
J. M. O'Donnell & Co.,	Boots and shoes, .	56	14	—	2	Good, .	Control power on sewing-machine shaft; guard set screws, roller and splitter; procure certificate.	Complied.
Woodward & Wright,	Lasts, .	25	—	—	—	Fair, .	Repair safety; guard set screws, .	Complied.
George E. Keith, . . .	Boots and shoes, .	525	125	—	6	Fair, .	Procure certificate; box skiving-machine shaft; control power on sewing-machine shaft; additional water-closet for females; box hoisting gear of elevators; guard set screws, coupling pins, rolling and splitting machines; outside door unlocked during working hours.	Complied.
S. E. Packard & Son, . .	Paper boxes, .	10	43	—	1	Good, .	Guard set screws, . . .	Complied.
E. & L. C. Keith Co., .	Boots and shoes, .	85	40	—	8	Fair, .	Guard set screws and rolling machine; control power on sewing-machine shaft.	Complied.
Myron F. Thomas, . . .	Boots and shoes, .	110	30	—	—	Good, .	Guard set screws; control power on sewing-machine shaft.	Complied.
Cleve & Krim,	Mackintoshes, .	1	19	—	—	Good, .	Post time tables; control power on sewing-machine shaft.	Complied.
Scott & Myers,	Machinery, . . .	17	—	—	—	Fair, .	Guard set screws, coupling pins and band saw; rail main pulley, crank shaft and fly wheel.	Complied.
Walker, Taylor & Co., .	Boots and shoes, .	111	40	—	—	Fair, .	Control power on sewing-machine shaft; guard set screws, coupling pins and elevator entrance; safety device for elevator.	Complied.

DISTRICT NO. 8 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BROCKTON — <i>Concluded.</i> Thompson Bros., . . .	Boots and shoes, .	193	57	-	2	Bad, .	Guard set screws, coupling pins, roller and skiver; clean closets; provide an additional closet for stitching room; repair safety device on elevator.	-
	Boots and shoes, .	150	50	-	-	Fair, .	Control power on sewing-machine shaft; guard rolling machine; rail crank shaft.	-
R. B. Grover & Co., . . . Preston B. Keith, . . .	Boots and shoes, .	300	75	-	-	Good, .	Guard set screws; rail crank shaft.	Complied.
	Boots and shoes, .	190	60	-	-	Good, .	Control power on sewing-machine shaft; outside door to be unlocked during working hours.	Complied.
Whitman & Keith, . . .	Boots and shoes, .	310	90	-	7	Fair, .	Guard set screws, roller and skiver; additional water-closet in stitching room; outside door unlocked during working hours.	Complied.
Monarch Rubber Co., . . .	R u b b e r - c o a t e d cloth.	25	-	-	-	Fair, .	Guard set screws and gears on grinders; rail fly wheel, crank shaft and dynamo.	Complied.
E. R. Leird & Co., . . .	Steel shanks, .	14	-	-	4	Fair, .	Rail fly wheels; guard set screws, .	-

Haggerty & Sullivan,	Boots and shoes,	38	12	—	2	Fair,	Guard set screws and skiving machines; control power on sewing-machine shaft; procure certificate.	Moved.
M. A. Packard & Co.,	Boots and shoes,	175	75	—	2	Fair,	Guard set screws; control power on sewing-machine shaft.	Complied.
CARVER.								
Ellis Foundry Co.,	Hollow ware,	33	—	—	—	Fair,	Guard set screws; rail opening; post time table.	Complied.
DUXBURY.								
Seaver & Co.,	Dry paint,	8	—	—	—	Fair,	Guard set screws and crank shaft,	Complied.
HOLBROOK.								
Whitcomb & Paine,	Boots,	70	5	—	2	Good,	Guard set screws and splitter; procure certificates.	Complied.
Paine Shoe Co.,	Shoes,	105	20	—	—	Good,	Guard set screws,	Complied.
Thomas White & Co.,	Shoes,	125	25	—	—	Good,	Control power on sewing-machine shaft; guard set screws, roller and splitter.	Complied.
J. B. Billings,	Boots and shoes,	55	20	—	2	—	Guard roller and skiver; box main belt; procure certificate.	Complied.
MARSHFIELD.								
S. B. Chandler,	Wood-work,	10	—	—	—	Good,	Guard set screws; box gear,	Complied.
MIDDLEBOROUGH.								
J. S. Benson & Son,	Lumber,	10	—	—	—	Good,	Guard set screws,	Complied.
C. N. Atwood,	Wood boxes,	30	—	—	—	—	Guard set screws; rail crank shaft and main belt.	Complied.

DISTRICT No. 8—Continued.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.		Females.	Under 14.				14 to 16.
PLYMOUTH.									
Paine & Hersey,	Boots and shoes, .	20	5	—	—	—	Control power on sewing-machine shaft; guard set screws, splitter and roller; box or rail motor.	Complied.	
Old Colony Steam Laundry, .	Laundry,	1	11	—	—	Good, .	Guard set screws,	Complied.	
Plymouth Woollen Co., . .	Men's woollens, .	100	100	—	5	Good, .	Guard set screws; rail crank shaft, post time tables	Complied.	
Edes Manufacturing Co., . .	Battery zines, .	24	—	—	—	Good, .	Box motor; post time tables; safety device for elevator.	Complied.	
Mason Machine Works, . .	Seamless pockets, .	14	11	—	—	Good, .	Box motor; guard set screws; comply with chapter 144.	—*	
Old Colony Memorial, . . .	Printing,	7	3	—	—	Good, .	Rail motor; guard set screws; box belt; post time tables.	Complied.	
Plymouth Foundry Co., . . .	Stoves,	85	—	—	1	Fair, .	Post time tables,	Complied.	
Charles E. Taylor & Co., . .	Wood boxes,	2	—	—	—	Fair, .	Post time tables,	Complied.	
Bradford Joint Co.,	Bed joints,	12	—	—	—	Good, .	Box belts; guard set screws, . .	Complied.	
Standard Worsted Co., . . .	Worsted,	52	23	—	2	Good, .	Guard set screws; bar to outside door.	—	
Russell Mill,	Cotton duck, . . .	49	23	—	2	Good, .	Guard set screws; make elevator safe.	Complied.	
Plymouth Mills,	Nails, tacks and rivets.	50	10	—	—	Fair, .	Guard set screws and gears on rivet machine.	Complied.	

Atlas Tack Co., . . .	Tacks and bars, . .	15	10	—	1	Fair, .	Guard set screws; procure certificate,	Complied.
Robinson Iron Co., . .	Nails and tack plate.	40	—	—	—	Fair, .	Rail passageway; guard set screws and pulley.	Complied.
QUINCY.								
F. B. Thomas & Co., . .	Hammocks, . .	6	6	—	—	Fair, .	Box sewing-machine shaft; post time tables; additional water-closet; comply with chapter 144.	Complied.
Meyer Rosenfield, . . .	Ladies' wrappers,	1	16	—	—	Good, .	Post time tables; control power on sewing-machine shaft.	Closed.
RANDOLPH.								
Bryant Boot & Shoe Co., . .	Boots and shoes, .	34	1	—	—	Fair, .	Control power on sewing-machine shaft; guard rolling machines and set screws.	—
W. F. Barrett & Co., . .	Boots and shoes, .	15	2	—	—	Fair, .	Guard splitter; control power on sewing-machine shaft.	—
Bradley, Hagney & Leonard, .	Boots and shoes, .	120	50	—	—	Good, .	Designate water-closets; control power on sewing-machine shaft; guard set screws, roller and splitter.	Complied.
James A. Brennan, . . .	Boots and shoes, .	15	5	—	—	Good, .	Guard set screws, roller and splitter; control power on sewing-machine shaft; rail crank shaft.	Complied.
Charles Doughty, . . .	Harness, . .	14	1	—	—	Good, .	Rail fly wheel,	Complied.
Goeves Bros., . . .	Boots and shoes, .	12	2	—	—	Good, .	Post time tables; guard roller and set screws; control power on sewing-machine shaft.	Moved.
Wm. H. Gibbons & Co., . .	Boots and shoes, .	50	10	—	1	Good, .	Control power on sewing-machine shaft; procure certificate.	Complied.
Randolph Grist Mill, . .	Meal, etc., . .	3	—	—	—	Good, .	Guard set screws,	Complied.

* Moved to Lowell.

DISTRICT No. 8 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ROCKLAND.								
The Rockland Co., . . .	Boots and shoes, .	80	20	—	4	Fair, .	Guard set screws, roller and splitter; control power on sewing-machine shaft; procure certificate.	Complied.
French, Shriver & Umer, . .	Boots and shoes, .	80	20	—	—	Good, .	Guard set screws and roller; control power on sewing-machine shaft.	Complied.
Anderson Tack Co., . . .	Tacks and nails, .	5	—	—	—	Good, .	Guard set screws; post time tables,	Complied.
Hall, Gallagher & Foulke, .	Boots and shoes, .	53	7	—	—	Good, .	Guard set screws; control power on sewing-machine shaft	Complied.
John Spence & Co., . . .	Bleached leather, .	20	—	—	—	Good, .	Rail crank shaft,	Complied.
J. H. Locke & Co., . . .	Boots and shoes, .	47	3	—	—	Good, .	Control power on sewing-machine shaft; guard roller and splitter; post time tables.	Complied.
The J. S. Turner Co., . . .	Boots and shoes, .	130	20	—	—	Good, .	Guard roller and splitter; rail dynamo; control power on sewing-machine shaft.	Complied.
Hub Gore Co., . . .	Elastic gore, .	43	8	—	—	Good, .	Guard set screws; bar outside door,	Complied.
Rice & Hutchins, . . .	Boots and shoes, .	145	30	—	4	Good, .	Control power on sewing-machine shaft; procure certificate; guard roller, splitter and belt.	Complied.
E. T. Wright & Co., . . .	Boots and shoes, .	107	18	—	—	Good, .	Guard set screws and roller; repair safety; designate water-closet; control power on sewing-machine shaft.	Complied.

DISTRICT No. 8—*Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
WHITMAN — <i>Concluded.</i>								
Atlas Tack Co.,	Tacks, shanks and spring beds.	105	25	—	Fair, .	Guard set screws,	Complied.	
Perkins, Jones & Co., . .	Boots and shoes, .	185	40	—	Fair, .	Control power on sewing-machine shaft; guard set screws and splitter; procure certificate.	Complied.	
Whitman Paper Box Factory, .	Paper boxes, .	7	23	—	Fair, .	Guard set screws,	Complied.	
Whitman Grain and Coal Co., .	Grain and coal, .	8	—	—	Fair, .	Guard main belt and fly wheel, .	Complied.	
Commonwealth Shoe and Leather Co.	Boots and shoes, .	1,000	300	—	Good, .	Guard set screws, roller and splitter; repair safety on two large elevators; control power on sewing-machine shaft; procure certificate; rail crank shaft.	Complied.	
T. A. Whicher & Co., . . .	Boots and shoes, .	95	35	—	Good, .	Guard roller and splitter; rail crank shaft; control power on sewing-machine shaft.	Complied.	
Woodward, Faulkner & Co., .	Boots and shoes, .	40	5	—	Good, .	Guard set screws and coupling pins, roller and splitter; control power on sewing-machine shaft; designate water-closet; post time tables. Procure certificate; guard set screws, .	—	
David B. Gurney,	Tacks, nails and steel shanks.	84	16	—	Fair, .	Box belt on planer,	Complied.	
Charles P. Slack & Co., . .	Wood boxes, .	30	—	—	Fair, .		Complied.	

EDWARD B. PUTNAM, *Inspector.*

DISTRICT No. 9,

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14.	14 to 16.			
AMESBURY.								
Charles D. Pecker & Co., . . .	Boots and shoes, .	50	40	—	1	Good, .	Guard set screws; box belt; procure certificate; designate water-closet.	Complied.
Biddle & Smart Co., . . .	Carriages, . . .	130	8	—	—	Good, .	Guard set screws; box belt; repair safety; designate water-closet; post time tables.	Complied.
Essex Leather Co., . . .	Carriage leather, .	14	—	—	—	Fair, .	Rail crank shaft; guard set screws, .	Complied.
Atwood Manufacturing Co., . .	Carriage lamps and mountings.	74	6	—	2	Good, .	Procure certificate; guard set screws; post time tables.	Complied.
Merrimac Hat Co., . . .	Wool and fur hats,	200	80	—	4	Fair, .	Post time tables; guard set screws; designate water-closet.	Complied.
Amesbury Carriage Co., . . .	Carriages, . . .	87	3	—	—	Good, .	Guard swing saw and set screws; designate water-closet.	Complied.
S. R. Bailey & Co., . . .	Carriages, . . .	69	—	—	—	—	Guard set screws and belt, . .	Complied.
Lewis Adams & Co., . . .	Slippers, . . .	13	7	—	—	Fair, .	Rail dynamo; control power on sewing-machine shaft.	Complied.
Amesbury Building & Power Co.,	Steam power, .	2	—	—	—	Good, .	Guard set screws; rail fly wheel, .	Complied.
Currier, Cameron & Co., . . .	Carriage wheels and iron work.	57	—	—	—	Good, .	Guard set screws, . . .	Complied.
Amesbury Steam Laundry, . . .	Laundry, . . .	3	5	—	—	Good, .	Guard set screws; post time tables, .	Complied.
F. S. Merrill, . . .	Carriage wheels, .	26	—	—	—	Good, .	Guard set screws, . . .	Complied.

DISTRICT NO. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.	Females.			
		Males.						
AMESBURY — <i>Concluded.</i>								
James N. Leitch, . . .	Carriage wood-work	20	—	—	—	Good, .	Guard set screws, . . .	Complied.
Moody & True, . . .	House finish, . . .	6	—	—	—	Good, .	Guard set screws, . . .	Complied.
Amesbury Heat & Power Co., . . .	Electric power, . . .	8	—	—	—	Good, .	Rail pulleys and crank shafts, . . .	Complied.
Connor Carriage Co., . . .	Carriages, . . .	19	1	—	—	Good, .	Post time tables, . . .	Complied.
Hume Carriage Co., . . .	Carriages, . . .	64	6	—	—	Good, .	Rail dynamo, . . .	Complied.
Osgood Morrill, . . .	Carriages, . . .	39	1	—	—	Good, .	Rail dynamo and belt; post time tables.	Complied.
GROVELAND.								
Groveland Mills, . . .	Dress goods, . . .	298	127	—	—	Fair, .	Guard set screws; designate water-closets.	Complied.
HAVERHILL.								
E. S. Harris, . . .	Boots and shoes, . . .	30	20	—	—	Good, .	Guard set screws; repair loose pulley on sewing-machine shaft; keep inside door unlocked.	Complied.
D. O. Clark & Co., . . .	Shoe nails and tacks.	12	1	—	—	Good, .	Box belts; guard set screws, . . .	Complied.
F. H. Foss, . . .	Boots and shoes, . . .	31	24	—	—	Good, .	Keep inside door unlocked, . . .	Complied.
E. H. Emerson & Co., . . .	Boots and shoes, . . .	46	4	—	—	Good, .	Guard rolling machine; keep inside door unlocked.	Complied.

H. C. Sargent,	Boots and shoes, .	45	20	-	-	Good, .	Guard set screws; control power on sewing-machine shaft; keep inside door unlocked.	Complied.
Haverhill Iron Company, .	Mill and factory supplies.	45	-	-	-	Fair, .	Guard set screws,	Complied.
Chick Bros.,	Boots and shoes, .	510	140	-	5	Good, .	Box elevator cable; control power on sewing-machine shaft; guard set screws; box pulley and shaft.	Complied.
John W. Russ,	Boots and shoes, .	275	35	-	6	Good, .	Guard three rolling machines and set screws; certificate for minors.	Complied.
George H. Tilton,	Slippers,	38	12	-	1	Good, .	Control power on sewing-machine shaft; designate water-closets; procure certificates.	Complied.
W. W. Spaulding,	Boots, shoes and slippers.	270	80	-	3	Fair, .	Guard set screws; repair shipper on sewing-machine shaft.	Complied.
Spaulding & Swett,	Boots and shoes, .	100	50	-	1	Good, .	Guard rolling machine; illiterate minor to attend school.	Complied.
J. H. Connor,	Boots and shoes, .	85	50	-	-	Fair, .	Guard set screws; control power on sewing-machine shaft; designate water-closet.	Complied.
Field-Thayer Manuf'g Co., .	Boots and shoes, .	225	125	-	-	Fair, .	Box belts; guard set screws; guard Bresnehan dinker.	Complied.
Thomas S. Ruddock & Son, .	Boots and shoes, .	80	50	-	1	Fair, .	Control power on sewing-machine shaft; guard set screws.	Complied.
E. S. Colburn & Co.,	Boots and shoes, .	6	6	-	-	Good, .	Box sewing-machine shaft; control power on sewing-machine shaft; guard set screws.	Complied.
John J. Page,	Boots and shoes, .	39	1	-	-	Fair, .	Guard set screws,	Complied.
Croston & Proctor,	Heels,	1	9	-	-	Fair, .	Guard rolling machine,	Complied.
I. W. Tapley,	Paper boxes,	3	12	-	-	Good, .	Box belt; guard set screws,	Complied.

DISTRICT No. 9—*Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.	Females.			
		Males.						
HAVERHILL — Continued.								
Charles F. Maguire, . . .	Boots and shoes, .	6	2	—	—	Fair, .	Control power on sewing-machine shaft; guard set screws.	Complied.
Hayes Bros., . . .	Boots and shoes, .	33	17	—	—	Fair, .	Box sewing-machine shaft; guard rolling machine.	Complied.
J. H. Winchell & Co., . .	Boots and shoes, .	550	350	—	23	Fair, .	Control power on sewing-machine shafts; box sewing-machine shafts; procure certificate.	Complied.
C. A. Ellis & Co., . . .	Boots and shoes, .	32	18	—	—	Good, .	Box sewing-machine shaft; guard dinker, nails and screws on brush.	Complied.
H. S. Sprague, . . .	Boots and shoes, .	73	2	—	1	Fair, .	Guard set screws; post time tables; procure certificate.	Complied.
Hussey & Hodgdon, . . .	Boots and shoes, .	75	25	—	—	Fair, .	Control power on sewing-machine shaft; guard set screws, rolling and splitting machine.	Complied.
Byron Noyes Co., . . .	Slippers, . . .	50	25	—	—	Good, .	Guard rolling machine and set screws.	Complied.
W. C. Lewis Shoe Co., . .	Boots, shoes and slippers.	100	50	—	—	Fair, .	Control power on sewing-machine shaft; guard set screws.	Complied.
W. S. Chase & Sons, . . .	Slippers, . . .	66	4	—	—	Fair, .	Guard set screws, . . .	Complied.
Mrs. M. D. Lucier, . . .	Shoe stitching, .	—	20	—	—	Good, .	Control power on sewing-machine shaft.	Complied.

R. C. Miller,	.	.	.	Shoe stitching,	.	3	32	—	1	Fair,	.	Control power on sewing-machine shaft and keep it clear of strings, etc.; designate water-closets; procure certificates.	Complied.
C. W. Arnold,	.	.	.	Cut leather,	.	28	2	—	—	Good,	.	Post time tables,	Complied.
Perley Weeks,	.	.	.	Slippers,	.	60	30	—	2	Fair,	.	Guard set screws; procure certificates; designate water-closet.	Complied.
E. A. Jennings,	.	.	.	Wood boxes,	.	15	—	—	—	Fair,	.	Guard set screws,	Complied.
F. T. Gray,	.	.	.	Shoe stitching,	.	2	28	—	—	Fair,	.	Designate water-closets; keep sewing-machine shaft clear; control power on sewing-machine shaft.	Complied.
Russ Bros.,	.	.	.	Boots and shoes,	.	25	15	—	—	Fair,	.	Control power on sewing-machine shaft; designate water-closet.	Complied.
Searle & Webster,	.	.	.	Boots and shoes,	.	60	40	—	—	Fair,	.	Control power on sewing-machine shaft; guard set screws; box belt; procure certificate.	Complied.
W. H. Gould,	.	.	.	Slippers,	.	14	4	—	1	Fair,	.	Procure certificate; guard set screws; designate water-closet.	Complied.
J. H. Osgood,	.	.	.	Boots and shoes,	.	34	2	—	—	Fair,	.	Designate water-closet,	Complied.
J. H. Durgin & Son,	.	.	.	Boots and shoes,	.	45	30	—	—	Fair,	.	Guard set screws,	Complied.
Henry Merrill,	.	.	.	Shoe stitching,	.	2	23	—	1	Fair,	.	Procure certificate,	Complied.
Chesley & Rugg,	.	.	.	Boots and shoes,	.	70	50	—	—	Fair,	.	Guard set screws; designate water-closet; box belt.	—
E. C. Miller,	.	.	.	Shoe stitching,	.	5	35	—	1	Fair,	.	Control power on sewing-machine shaft.	Complied.
H. H. Hoyt,	.	.	.	Boots and shoes,	.	41	4	—	—	Fair,	.	Guard set screws and splitting machine.	Complied.
Hazen B. Goodrich & Co.,	.	.	.	Boots and shoes,	.	90	35	—	1	Fair,	.	Guard set screws; control power on sewing-machine shaft.	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14. 14 to 16.			
HAVERHILL — Continued.							
Wilbur H. Davis & Co., . . .	Boots, shoes and slippers.	80	40	—	Fair, .	Guard set screws; designate water-closet; control power on sewing-machine shaft.	Complied.
P. N. Wadleigh, . . .	Slippers, . . .	83	12	1	Fair, .	Guard set screws; procure certificate.	Complied.
G. W. Hardy, . . .	Boots and shoes, . . .	20	—	—	Fair, .	Post time tables; guard set screws and rolling machine.	Complied.
Edwin F. Lang, . . .	Shoe stitching, . . .	2	38	—	Fair, .	Control power on sewing-machine shaft; illiterate minor to attend evening school.	Complied.
F. N. Livingston, . . .	Bottom stock, . . .	30	—	—	Fair, .	Guard set screws; box belt, . . .	Complied.
D. S. Dudley & Co., . . .	Slipper-trimmings, . . .	11	9	—	Good, .	Post time tables, . . .	Complied.
L. A. Finney, . . .	Boots and shoes, . . .	23	17	—	Fair, .	Designate water-closet; repair boxing on sewing-machine shaft and control power on same.	Complied.
Files & Forbes, . . .	Boots and shoes, . . .	8	—	—	Fair, .	Guard rolling machines, . . .	Complied.
A. L. Tappan, . . .	Slippers, . . .	10	20	—	Fair, .	Guard set screws; box sewing-machine shaft and control power on same.	Complied.
J. B. Greely, . . .	Shoe stitching, . . .	—	20	—	Fair, .	Guard set screws; control power on sewing-machine shaft.	Complied.
Edwin W. Bullock & Co., . . .	Shoe stock, . . .	30	—	—	Fair, .	Box belt; guard set screws, . . .	Complied.

George W. Gilbert & Co., .	Cut leather, .	44	6	—	3	Fair, .	Guard set screws; procure certificate.	Complied.
Mrs. F. Whittier, .	Shoe stitching, .	1	14	—	—	Good, .	Post time tables, .	Complied.
J. C. Collins, .	Shoe stitching, .	—	30	—	—	Good, .	Guard set screws, .	Complied.
Miller Bros., .	Shoe stitching, .	4	31	—	—	Fair, .	Guard set screws; control power on sewing-machine shaft	Complied.
C. Chateaufneuf, .	Shoe stitching, .	—	15	—	—	Fair, .	Control power on sewing-machine shaft; illiterate minor to attend evening school.	Complied.
Wiley & Brickett, .	Boots and shoes, .	40	—	—	—	Fair, .	Box belt; guard set screws and Bresnehan dinker.	Complied.
Patten Shoe Co., .	Shoes, .	13	1	—	—	Good, .	Box belt, .	Complied.
Lennox & Briggs, .	Morocco leather, .	86	14	—	3	Fair, .	Post time tables; designate water-closet; box belt; guard set screws.	Complied.
Chase & Laubham, .	Steam power, .	3	—	—	—	Fair, .	Guard set screws, belts and pulleys,	Complied.
Charlesworth Power Co., .	Steam power, .	2	—	—	—	Fair, .	Guard set screws, .	Complied.
G. S. Smith & Son, .	Cut strawboard, .	11	1	—	—	Good, .	Post time tables, .	Complied.
W. F. Evans, .	Boots and shoes, .	22	3	—	—	Fair, .	Post time tables; guard set screws,	Complied.
George F. Carleton & Co.,	Boots and shoes, .	15	3	—	—	Fair, .	Designate water-closet; post time tables.	Complied.
Morse Bros., .	Boots and shoes, .	35	15	—	1	Fair, .	Designate water-closets; control power on sewing-machine shaft.	Complied.
W. E. Bixby & Co., .	Cut strawboard, .	10	—	—	1	Good, .	Procure certificate; post time tables,	Complied.
George C. How, .	Slippers, .	28	12	—	—	Fair, .	Guard set screws; control power on sewing-machine shaft.	Complied.
Poor & Dole, .	Slippers, .	8	2	—	—	Good, .	Separate closet for females, .	Complied.
Moody & Hicks, .	Low cuts, .	30	—	—	—	Fair, .	Guard set screws; box elevator cable,	Complied.
Woodman & Hubbard, .	Low cuts, .	22	8	—	—	Fair, .	Control power on sewing-machine shaft.	Complied.
C. P. Bullen, .	Shoe tacks and nails.	9	—	—	—	Good, .	Guard set screws; post time tables; box fly wheel on chopper.	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		NUMBER EMPLOYED.						
		Males.	Females.	Under 14. 14 to 16.				
HAVERHILL — Concluded.								
Chase Bros.,	Printed paper, .	18	4	—	Good, .	Guard set screws; post time tables; designate water-closet.	Complied.	
Mrs. Flora Desfosses, . . .	Shoe stitching, .	2	10	—	Bad, .	Procure certificate; post time tables; control power on sewing-machine shaft; separate closet for females.	Complied.	
Mrs. L. J. Stevens,	Shoe stitching, .	1	7	—	Fair, .	Post time tables; repair water-closet; additional water-closet for females; control power on sewing-machine shaft.	Complied.	
Mrs. J. J. Brimblecorn, . . .	Shoe stitching, .	—	15	—	Fair, .	Control power on sewing-machine shaft; repair water-closet; separate water-closet for females.	Complied.	
F. A. Smith,	Shoe stitching, .	2	23	1	Good, .	Procure certificate,	Complied.	
C. C. Griffin,	Soles, .	15	—	—	Good, .	Guard set screws,	Complied.	
Mrs. E. J. Hennessy,	Shoe stitching, .	3	22	—	Good, .	Control power on sewing-machine shaft.	Complied.	
A. A. Ordway,	Boots and shoes, .	15	5	—	Good, .	Control power on sewing-machine shaft.	Complied.	
W. C. Blye,	Slippers, .	1	15	—	Good, .	Control power on sewing-machine shaft; guard set screws.	Complied.	
F. Archibald,	Boots and shoes, .	7	8	—	Good, .	Control power on sewing-machine shaft; guard set screws.	Complied.	

C. E. Poor, . . .	Boots and shoes, .	24	1	—	1	Good, .	Guard set screws, . . .	Complied.
N. F. Sawyer, . .	Machinery, . .	12	—	—	—	Fair, .	Guard set screws, . . .	Complied.
B. F. Bickum & Co., . .	Heels, . . .	3	3	—	—	Bad, .	Post time tables; guard set screws; separate closets for females	Complied.
C. P. Hicks, . . .	Shoe stitching, .	—	10	—	—	Good, .	Control power on sewing-machine shaft.	Complied.
C. O. Mayberry, . .	Boots and shoes, .	8	—	—	—	Fair, .	Guard rolling machine, . . .	Complied.
Jennie P. Sanborn, . .	Shoe stitching, .	2	10	—	—	Good, .	Designate water-closet; guard set screws; control power on sewing-machine shaft.	Complied.
A. P. Jacques, . . .	Steam power, . .	2	—	—	—	Good, .	Guard set screws, . . .	Complied.
J. W. Gordon & Co., . .	Carriages, . . .	8	—	—	—	Good, .	Rail fly wheel; guard set screws and elevator entrances.	Complied.
French & Neal, . . .	Shoe stock, . . .	18	17	—	—	Fair, .	Post time tables; box belts; guard elevator entrances; additional water-closet.	Complied.
Arthur F. Parshey, . . .	Shoe stitching, .	2	16	—	—	—	Control power on sewing-machine shaft; separate water-closet for females.	Complied.
George A. Hawkes, . .	Slippers, . . .	20	15	—	—	Fair, .	Additional water-closet, . . .	Complied.
Haverhill Electric Co., . .	Electricity, . . .	7	—	—	—	Good, .	Rail crank shafts, . . .	Complied.
NEWBURYPORT.								
Burley & Usher, . . .	Boots and shoes, .	200	100	—	—	Fair, .	Guard roller, splitter and set screws; box shaft; post time tables; designate water-closets; additional water-closets for females.	Complied.
Bay State Cordage Co., . .	Cordage, . . .	50	5	—	—	Fair, .	Guard set screws; provide seats for females; designate water-closet.	Complied.
Wilder & Clark Shoe Co., . .	Boots and shoes, .	38	37	—	—	Fair, .	Guard set screws; procure certificate.	Complied.
Carr, Brown & Co., . . .	Horn combs, . . .	38	2	—	—	Fair, .	Guard set screws; post time tables,	Complied.

DISTRICT NO. 9 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
NEWBURYPORT — <i>Concluded.</i>								
E. G. Moody,	Boots and shoes, .	25	15	—	—	Fair, .	Control power on sewing-machine shaft; guard set screws; box dynamo.	Complied.
E. A. Hale,	Paper boxes, .	3	7	—	—	Good, .	Box belt; designate water-closet, .	Complied.
E. F. Tibbets,	Boots and shoes, .	8	4	—	—	Good, .	Guard set screws; post time tables, .	Complied.
New York Biscuit Co.,	Pilot bread, .	17	1	—	—	Good, .	Box belts,	Complied.
Albert Russell & Sons,	Machinery, .	25	—	—	—	Fair, .	Box belts; guard set screws, . .	Complied.
Peabody Mills,	Cottons, .	144	219	—	25	Fair, .	Guard set screws; box shaft running through archway.	Complied.
The Fiberloid Co.,	Collars and cuffs, .	65	35	—	3	Good, .	Guard set screws; rail crank shaft, .	Complied.
City Grist Mill and Grain Elevator.	Corn meal, etc., .	5	—	—	—	Fair, .	Box belts; rail fly wheel, . .	Complied.
Newburyport Gas and Electric Light Co.	Electricity, .	5	—	—	—	Fair, .	Rail pulleys and crank shaft, . .	Complied.
Edwin Perkins Lumber Co., . .	Lumber, .	23	—	—	—	Fair, .	Guard main belt and set screws, .	Complied.
Wm. H. Noyes & Bro.,	Horn combs, .	75	10	—	3	Fair, .	Guard set screws,	Complied.
Newburyport and Amesbury Street Ry Co.'s Power House.	Electricity, .	4	—	—	—	Good, .	Guard fly wheels,	Complied.
WEST NEWBURY.								
William B. Chaplin,	Boots and shoes, .	34	16	—	—	Good, .	Control power on sewing-machine shaft; box same.	Complied.
S. C. Noyes & Co.,	Combs, .	46	4	—	—	Fair, .	Box belt; guard set screw, . .	Complied.

DISTRICT No. 9, HENRY SPLAINE, *Inspector*.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
ABINGTON.								
M. N. Arnold & Co.,	Shoes,	437	128	—	1	Bad, .	File certificate; post time tables; guard shafting; four additional closets for women.	Complied.
Kent & Brown,	Shoes and gloves,	5	1	—	—	Bad, .	Post time tables; erect and designate closets for women.*	Complied.
Kent & Bryant,	Overalls and pants,	1	6	—	—	Bad, .	Post time tables; closet for women,*	Complied.
BRAINTREE.								
H. B. Woodsum & Co.,	Tacks and nails, .	25	7	—	1	Good, .	Children's certificate,	Complied.
W. A. Ross & Co.,	Shoes,	23	2	—	—	Good, .	Designate closets,	Complied.
Four Rivers Engine Co.,	Marine engines, .	40	—	—	—	Good, .	Guard fly wheel,	Complied.
Ambler & Hobart,	Grist,	6	—	—	—	Fair, .	Guard shafting,	Complied.
Braintree Street Railway Co.,	Electric power, .	14	—	—	—	Good, .	Observe hours of labor; make weekly payments.	Complied.
BROCKTON.								
Alfred E. Woodward,	Shoes,	9	6	—	—	Bad, .	Closet for women,	Complied.
Joyce & Fletcher,	Shoes,	65	20	—	1	Fair, .	Post time tables; guard elevator well; guard shafting; designate closets; rail in front porch.	Complied.
Charles A. Eaton & Co.,	Shoes,	100	30	—	—	Bad, .	Clean up privy,	Complied.

DISTRICT NO. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
HYDE PARK — <i>Concluded.</i>								
John Hodgkinson & Son, . . .	House finish, . . .	3	—	—	—	Good, . .	Guard fly wheel, . . .	Complied.
Tileston & Hollingsworth Co., . .	Paper, . . .	85	40	—	—	Good, . .	Guard fly wheel and set screws, . .	Complied.
MEDFIELD.								
Searle, Dailey & Co., . . .	Straw and felt goods, . .	50	25	—	—	Good, . .	Guard pulley wheel of dynamo, . .	Complied.
Wm. Marshall, . . .	Bonnet wire, . .	5	—	—	—	Good, . .	Guard fly wheel, . . .	Complied.
MIDDLEBOROUGH.								
C. W. Maxim, . . .	Builders' finish, . .	4	—	—	—	Good, . .	Guard fly wheel, . . .	Complied.
Le Barron Foundry Co., . . .	Iron castings, . .	40	—	—	—	Fair, . .	Unlawful employment of children, . .	Complied.
John B. Le Barron, . . .	Box boards, . .	5	—	—	—	Fair, . .	Guard fly wheel and shafting, . .	Complied.
Hathaway, Soule & Harrington, Incorporated, . . .	Shoes, . . .	167	73	—	—	Good, . .	Additional closet for women, . .	Complied.
Clark & Cole, . . .	Wooden boxes, . .	30	—	—	—	Fair, . .	Repair safety device of elevator; guard "K" bolt on shafting of engine, . .	Complied.
Leonard & Barrows, . . .	Shoes, . . .	215	125	—	—	Good, . .	Repair safety device of elevator, . .	Complied.
Parlor Pride Manufacturing Co., . .	Stove polish, . .	4	2	—	—	Good, . .	Post time tables; guard fly wheels, . .	Complied.
Burbank & Ryder, . . .	Japans, . . .	4	—	—	—	Good, . .	Guard fly wheels, . . .	Complied.
Middleborough Electric Plant, . .	Light, . . .	3	—	—	—	Good, . .	Guard driving pulleys, . . .	Complied.

C. H. Alden & Co.,	Boots and shoes,	100	25	—	1	Bad,	Erect closet for women; guard shafting; file certificate.	Complied.
Keith & Pratt,	Shoes,	49	6	—	1	Fair,	Guard fly wheel,	Complied.
MILTON.								
Record Dry Plate Co.,	Dry plate,	4	4	—	1	Good,	Post time tables; designate closets,	Closed up.
NORFOLK.								
City Mills Co.,	Felting,	86	12	—	2	Good,	File certificate; guard fly wheel,	Complied.
NORWOOD.								
Lyman Smith's Sons Co.,	Sheepskins,	150	—	—	1	Fair,	Post time tables; file certificate,	Complied.
C. J. Sullivan,	Steam laundry,	2	3	—	—	Bad,	Erect closet for women,	Complied.
J. S. Cushing & Co.,	Composition,	70	60	—	—	Good,	Designate closets,	Complied.
Geo. A. Scott & Sons,	Electrotyping,	15	—	—	1	Good,	File certificate,	Complied.
Berwick & Smith,	Printing,	47	3	—	—	Good,	Designate closets,	Complied.
Winslow Bros.,	Sheepskins,	290	—	—	2	Good,	Guard fly wheel,	Complied.
Geo. H. Morrill,	Printers' ink,	26	—	—	—	Good,	Guard fly and pulley wheels,	Complied.
QUINCY.								
Wollaston Steam Laundry,	Laundry,	5	18	—	—	Good,	Designate closets,	Complied.
N. Curtis & Co.,	Shoes,	12	13	—	—	Good,	Designate closets,	Complied.
John E. Drake,	Shoes,	18	12	—	—	Good,	Designate closets,	Complied.
T. A. Whitaker & Co.,	Custom shoes,	36	4	—	—	Good,	Designate closets,	Complied.
H. C. Rogers,	Boots and shoes,	88	12	—	—	Good,	Designate closets,	Complied.
Thomas & Miller,	Boots and shoes,	33	12	—	—	Good,	Post time tables; designate closets,	Complied.
Douglas & McLeod,	Monumental work,	45	—	—	—	Fair,	Guard fly wheel,	Complied.
J. F. Kemp,	Polishing granite,	9	—	—	—	Fair,	Guard fly wheel,	Complied.
	Machinery,	4	—	—	—	Fair,	Guard fly wheel and end of pulley shaft.	Complied.
Craig & Richards,	Monumental,	30	—	—	—	Fair,	Post time tables,	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.	
		Males.	Females.	Under 14.				14 to 16.
QUINCY — <i>Concluded.</i>								
Craig & Richards, . . .	Granite quarry, .	30	—	—	1	Fair, .	Post time tables; file certificates; pay weekly.	Complied.
Badger Bros., . . .	Granite quarry, .	15	—	—	1	Fair, .	Post time tables; file certificate; guard fly wheel and gearing of engine.	Complied.
Elcock & Sons, . . .	Granite quarry, .	35	—	—	—	Fair, .	Guard fly wheel, . . .	Complied.
Granite R. W. Co., . . .	Granite quarry, .	60	—	—	1	Fair, .	Post time table; file certificate; guard driving wheel of engine.	Complied.
Lyons Granite Co., . . .	Quarry and monumental.	31	—	—	—	Fair, .	Guard fly wheel and crank shaft; make weekly payments.	Complied.
Prout Bros., . . .	Quarry and monumental.	15	—	—	—	Fair, .	Pay weekly; guard fly wheel of engine.	Complied.
John Smith, . . .	Monumental granite.	6	—	—	—	Fair, .	Post time tables; guard fly wheel, .	Complied.
Miller & Luce, . . .	Monumental granite.	20	—	—	—	Fair, .	Guard fly wheel, . . .	Complied.
Geo. H. Hitchcock, . . .	Monumental granite.	20	—	—	—	Fair, .	Post time tables; guard crank shaft,	Complied.
John Fallon & Sons, . . .	Granite quarry, .	20	—	—	—	Fair, .	Post time tables, . . .	Complied.
Lewis Dell & Co., . . .	Granite quarry, .	14	—	—	—	Fair, .	Post time tables, . . .	Complied.
Fegan & Ballon, . . .	Granite quarry, .	40	—	—	—	Fair, .	Guard fly wheel, . . .	Complied.
C. H. Hardwick, . . .	Quarry and monumental.	40	—	—	1	Fair, .	Post time tables; guard fly wheel; file certificate.	Complied.
Eagle Polishing Co., . . .	Polishing granite,	15	—	—	—	Fair, .	New shippers, . . .	Complied.

F. Hardwick & Son, . . .	20	Quarry and monuments.	-	-	Fair, .	Guard fly wheel; place new ship-pers in McDonald's shop	Complied.
McKenzie & Paterson, . .	18	Quarry and monuments.	-	-	Fair, .	Post time tables, . . .	Complied.
Field & Wilde, . . .	54	Quarry and monuments.	-	-	Fair, .	Guard fly and driving wheels,*	Complied.
John P. Galvin & Co, . .	10	Quarry and monuments.	-	-	Fair, .	Post time tables; place new fall on hoisting machinery.	Complied.
E. F. Carr & Co., . . .	8	Quarry and monuments.	-	-	Fair, .	Guard fly wheel, crank and shaft, .	-†
Carl Helbloom, . . .	4	Quarry and monuments.	-	-	Fair, .	Guard fly wheel, . . .	-†
Merrymount Granite Co., .	13	Quarry and monuments	-	-	Fair, .	Pay weekly, . . .	Complied.
McDonnell & Son, . . .	30	Monumental, . . .	-	-	Fair, .	Guard fly wheel, . . .	Complied.
T. W. Smith, . . .	16	Polishing, . . .	-	-	Fair, .	Guard fly wheel, . . .	Complied.
ROCKLAND.							
Rice & Hutchins, . . .	150	Shoes, . . .	33	-	Good, .	File certificate, . . .	Complied.
F. E. Nesmith, . . .	20	-	16	-	Good, .	File certificate, . . .	Complied.
WALPOLE.							
Union Sand Paper Co., . .	43	Sand paper, . . .	-	-	Good, .	Automatic gate to elevator well, .	Complied.
Hollingsworth & Vose, . .	75	Manila paper, . .	-	-	Bad, .	Erect suitable closets, . . .	Complied.
Bradford, Lewis & Son, . .	56	Board paper and waste.	14	-	Good, .	Guard fly wheel; file certificate, .	Complied.
Lewis Batting Co., . . .	34	Cotton batting and carpet lining.	6	-	Good, .	File certificate, . . .	Complied.
Chandler Adjustable Chair and Desk Co.	46	School furniture, .	-	-	Good, .	Post time tables; file certificate, .	Complied.

* Are making important alterations; order in abeyance.

† Out of business.

DISTRICT NO. 9 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.			14 to 16.			
		Males.	Females.					
WEST BRIDGEWATER.								
C. E. Tisdale & Co., . . .	Shoes, . . .	20	3	—	—	Good, . .	Post time tables, . .	Complied.
C. Copeland & Son, . . .	Shoes, . . .	20	5	—	—	Good, . .	Post time tables, . .	Complied.
WEYMOUTH.								
H. B. Reed & Co., . . .	Shoes, . . .	140	20	—	1	Good, . .	Guard shafting; post time tables; designate closets; file certificate.	Complied.
Elon Sherman's Sons, . . .	Paper and wooden boxes.	25	25	—	—	Fair, . .	Guard set screw, . .	Complied
J. E. Derby, . . .	Shoe strings, . .	2	2	—	—	Good, . .	Post time tables, . .	Complied.
A. O. Crawford & Co., . . .	Folding boxes, . .	8	18	—	—	Good, . .	Guard fly wheel; post time tables; file certificates.	Complied.
Cassius Tirrell, . . .	Shoe strings, . .	2	3	—	—	Good, . .	Post time tables, . .	Complied.
E. H. Stetson & Co., . . .	Shoes, . . .	85	15	—	—	Good, . .	Post time tables, . .	Complied.
Weymouth Light and Power Co., . . .	Light and power, . .	4	—	—	—	Good, . .	Guard alternating pulleys, . .	Complied.
F. E. Hobart, . . .	Ladies' wrappers, . .	4	26	—	—	Good, . .	Guard shafting, . .	Complied.
M. C. Dizer & Co., . . .	Shoes, . . .	390	60	—	2	Good, . .	Designate closets; file certificates, . .	Complied.
Edwin Clapp, . . .	Shoes, . . .	140	40	—	1	Good, . .	Designate closets, . .	Complied.
Fred. Cate, . . .	Wrappers, . . .	6	124	—	1	Good, . .	Additional closets for women; guard fly wheel; file certificate.	Complied.
Geo. H. Bicknell, . . .	Counters, etc., . .	49	3	—	—	Fair, . .	Guard fly wheel; post time tables; designate closets.	Complied.
Torrey, Curtis & Tirrell, . . .	Shoes, . . .	86	18	—	1	Good, . .	Guard fly wheel, . .	Complied.

WRENTHAM.

Lincoln, Bacon & Co.,	.	Gold and plated chains.	48	18	-	1	Good, .	File certificate, .	.	.	Complied.
James A. Bartlett,	.	Plated spring-swivels.	4	1	-	-	Good, .	File certificate, .	.	.	Complied.
J. M. Fales & Co.,	.	Wooden and paper boxes.	14	-	-	-	Fair, .	Guard fly wheel,	.	.	Complied.
Daniel Brown,	.	Straw goods,	75	65	-	1	Fair, .	File certificate, .	.	.	Complied.

REPORT OF INSPECTOR SHEEHAN.

Number of establishments inspected,	407
Number of elevators inspected,	175
Number of orders sent,	247
Number of compliances,	247
Number of males employed in factories,	17,590
Number of females employed in factories,	8,493
Number of minors under fourteen years,	13
Number of minors between fourteen and sixteen years,	369

DISTRICT No. 9,

JOHN J. SHEEHAN, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BEVERLY.								
D. A. Kilham,	Wood and paper boxes.	8	20	—	—	Good, .	Guard staying machine; cover set screws on shafting.	Complied.
Whitman Manufacturing Co., .	Novelties,	10	10	—	—	Fair, .	New hoisting rope for elevator car; cover set screws on shafting.	Complied.
Woodbury Bros,	Boots and shoes, .	275	225	—	19	Fair, .	Provide iron plate for cross bar of elevator No. 1; new hoisting rope for elevator car No. 2.	Complied.
Hand Method Lasting Machine Co.	Shoe machinery, .	130	—	—	1	Good, .	Post time tables; comply with fifty-eight-hour law.	Complied.
Murray & Cone,	Boots and shoes, .	70	40	—	2	Fair, .	Provide loose pulley and shipper for belt in stitching room.	Complied.
William L. Wood,	Shoe stitching, .	—	25	—	1	Good, .	Cover set screws on shafting; provide loose pulley and shipper for belt in stitching room.	Complied.
J L. Porter,	Boots and shoes, .	10	—	—	—	Good, .	Cover set screws on shafting, . .	Complied.
Beverly Machine Co.,	Car trimmings, .	10	—	—	—	Good, .	Guard fly wheel of engine, . . .	Complied.
DANVERS.								
Woodman Bros. & Ross, . . .	Wood and paper boxes.	21	15	—	—	Good, .	Box belts, first floor; provide closet for females.	Complied.

DISTRICT No. 9 — Continued.

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.		Females.	Under 14.				14 to 16.
DANVERS — <i>Concluded.</i>									
George Plumer & Co, . . .	Fancy leather, .	54	—	—	—	Fair, .	Box belts running through floors; place railings around steam fans and pin wheels; guard elevator well on third floor.	Complied.	
J. E. Crosby, . . .	Boots and shoes, .	35	35	—	—	Fair, .	Box belts running through floors, .	Complied.	
Martin Kelly & Co., . . .	Boots and shoes, .	11	5	—	—	Fair, .	Post time tables; guard fly wheel of engine, roller and splitter machines; provide shipper for belt in stitching room.		
A. B. Clark, . . .	Morocco, . .	36	—	—	—	Fair, .	Provide shipper for belt; guard fly wheel of machine for polishing skins.	Complied.	
L. E. Learoyd, . . .	Morocco, . .	60	—	—	—	Fair, .	Box belts running through floors; guard fly wheel of machine for polishing skins.	Complied.	
Annable Bros., . . .	Boots and shoes, .	6	7	—	—	Fair, .	Post time table; cover set screws on shafting; box belt; provide shipper for belt in stitching room.	Complied.	
Bernard & Co., . . .	Morocco, . .	148	—	—	—	Fair, .	Guard steam fans in drying room and pin wheels in basement; cover set screws on shafting; new hoisting rope for elevator car.	Complied.	

W. F. Burns, . . .	Boots and shoes, .	63	35	-	-	Fair, .	Repair safety on dinker machine; provide shipper for belt on roller machine.	Complied.
J. H. Regan, . . .	Boots and shoes, .	15	10	-	-	Fair, .	Post time tables; provide shipper for belt in stitching room.	Complied.
A. H. Putnam, . . .	Felt slippers, .	9	3	-	-	Good, .	Provide loose pulley and shipper for belt in stitching room.	Complied.
C. L. Elliott, . . .	Boots and shoes, .	20	5	-	-	Fair, .	Provide loose pulley and shipper for belt in stitching room.	Complied.
J. W. Tullock, . . .	Boots and shoes, .	25	15	-	-	Fair, .	Post time tables; guard fly wheel of engine; provide loose pulley and shipper for belt in stitching room.	Complied.
Derry & Gould, . . .	Wood and paper boxes.	15	10	-	-	Good, .	Box belt, third floor; guard circular saw, first floor.	Complied.
Essex. Essex Shoe Co., . . .	Boots and shoes, .	50	50	-	3	Fair, .	Provide loose pulley and shipper for belt in stitching room; repair safety on elevator car and dinker machine.	Complied.
GLOUCESTER. L. A. Burnham & Co., . . .	Fishing lines, .	14	-	-	-	Good, .	Post time table; box belts; guard shafting, second floor	Complied.
Improved Process Glue Co., . . .	Glue, . . .	7	1	-	-	Fair, .	Post time table; repair safety on elevator car; guard openings on each floor.	Complied.
Cunningham & Thompson, Gloucester Mackerel Co., . . .	Fish packing, .	25	-	-	-	Good, .	Post time table, . . .	Complied.
Slade, Gorton & Co., . . .	Fish packing, .	7	8	-	-	Good, .	Post time table, . . .	Complied.
Joseph H. Rowe, . . .	Fish packing, .	22	2	-	-	Good, .	Post time table, . . .	Complied.
Cape Ann Shoe Co., . . .	Oil clothing, .	4	20	-	-	Good, .	Post time tables, . . .	Complied.
	Boots and shoes, .	140	135	3	29	Good, .	Guard fly wheel of engine, . . .	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
					Under 14.				14 to 16.
		Males.	Females.						
HAVERHILL.									
W. B. Thom, . . .	Hats, . . .	270	80	—	—	Good, .	Comply with weekly payment law, Repair safety on elevator car; ad- just hoisting machinery.	Complied.	
Webster & Tabor, . . .	Boots and shoes, .	72	8	—	—	Fair, .			
LYNNFIELD.									
Henry Law, . . .	Boots and shoes, .	60	40	—	—	Fair, .	Guard dinker machines; box belts running through floors; provide shipper for belt in stitching room.	Complied.	
LYNN.									
Bailey & Curtis, . . .	Boots and shoes, .	30	20	—	—	Fair, .	Post time table; cover set screws on shafting and nailer machine.	Complied.	
R. G. Harris, . . .	Boots and shoes, .	25	25	—	—	Fair, .	Cover set screws on shafting, . .	Complied.	
E. H. Dixey, . . .	Shoe stock, . . .	8	—	—	—	Good, .	Cover set screws on shafting, . .	Complied.	
P. J. Lynch, . . .	Heels, . . .	6	—	—	—	Good, .	Guard splitter machine, . . .	Complied.	
Patrick W. Cloran, . . .	Cigars, . . .	8	7	—	—	Good, .	Provide closet for females; unlock doors; post time table	Complied.	
Parker Bros., . . .	Shoe findings, .	8	22	—	—	Good, .	Cover set screws on shafting; guard shafting, second floor; designate water-closets.	Complied.	
Emma L. Darling, Ross Heel Co., . . .	Shoe stitching, Wooden heels, .	—	5 2	—	—	Good, . Good, .	Post time table, . . . Post time table; guard shafting; cover set screws.	Complied. Complied.	

Hurley & Cashman, . . .	Boots and shoes, . . .	35	25	-	-	Fair, .	Guard roller machine; designate water-closets; provide shipper for belt in stitching room.	Complied.
Moulton Leather Co., . .	Morocco, . . .	77	-	1	3	Fair, .	Post time tables; procure certificates for minors; guard fly wheel and crank shaft of engine; place railings around steam fans and pin wheels; box belts, first floor.	Complied.
John Donallan & Son, . .	Morocco, . . .	140	-	-	-	Fair, .	Guard crank shaft of engine; place railings around steam fans and pin wheels.	Complied.
Crossman Box Co., . . .	Wood and paper boxes.	13	27	-	-	Good, .	Cover set screws on shafting; box belts, first floor.	Complied
Eckhart & Ford, . . .	Boots and shoes, . . .	20	15	-	-	Fair, .	Designate closet, . . .	Complied.
Thomas Collyer, Jr., . .	Boots and shoes, . . .	19	1	-	-	Fair, .	Post time table; box main belt, .	Complied.
Sutherland Heel Co., . .	Heels, . . .	10	5	-	-	Good, .	Post time tables; designate closets,	Complied
Cutter & Ames, . . .	Pasted shoe stock,	8	4	-	-	Fair, .	Post time table, . . .	Complied.
Mrs. C. H. King, . . .	Boots and shoes, . . .	50	25	-	-	Fair, .	Designate closet, . . .	Complied.
D. P. Corcoran, . . .	Boots and shoes, . . .	40	25	-	1	Fair, .	Post time table; guard roller and dinker machines; cover set screws on shafting; provide shipper for belt in stitching room	Complied.
United States Shoe Co., .	Boots and shoes, . . .	100	75	-	1	Fair, .	Ventilate closets on fifth and sixth floors; procure certificate for minor.	Complied.
Neal & Munroe, . . .	Boots and shoes, . . .	25	15	-	-	Fair, .	Repair safety on dinker machine, .	Complied.
J. F. Hurley & Co., . .	Boots and shoes, . . .	15	15	-	-	Fair, .	Repair safety on dinker machine, .	Complied.
Phelan & Thomas, . . .	Boots and shoes, . . .	55	35	-	-	Fair, .	Post time tables; new hoisting rope for elevator car; guard opening on first floor.	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LYNN — Continued.								
D. A. Donovan & Co., . . .	Boots and shoes, .	90	100	—	1	Fair, .	Post time tables; rail opening in basement; guard shafting in stitching room.	Complied.
Lynn Welt Shoe Co., . . .	Boots and shoes, .	20	—	—	1	Fair, .	Post time table; cover set screws on shafting; procure certificate for minor.	Complied.
G. A. & E. A. Mansfield, . . .	Slippers, . . .	15	5	—	—	Fair, .	Cover set screws on shafting; provide communication with engineer's room.	Complied.
F. J. & W. O. Faulkner, . . .	Morocco, . . .	35	—	—	—	Fair, .	Post time tables; box belts; rail openings of hoistway and steam fans.	Complied.
Harnden & Blanchard, . . .	Pasted shoe stock, .	11	37	—	1	Good, .	Box gear wheels of pressing machine.	Complied.
J. E. Law & Co., . . .	Shoe labels, . . .	9	—	—	—	Good, .	Cover set screws on shafting, . .	Complied.
Sargent, Merrill & Co., . . .	Boots and shoes, .	43	2	—	—	Fair, .	Post time tables, . . .	Complied.
Kelham, Tilton & Co., . . .	Boots and shoes, .	20	15	—	—	Fair, .	Post time tables, . . .	Complied.
Roop & Melanson, . . .	Boots and shoes, .	20	15	—	—	Fair, .	Post time tables; guard shafting; provide shipper for belt in stitching room.	Complied.
W. H. Ingalls, . . .	Boots and shoes, .	20	15	—	—	Fair, .	Guard shafting; provide shipper for belt in stitching room	Complied.

C. A. Roberts, . . .	Boots and shoes, . . .	30	25	-	-	Fair, .	Guard shafting; box belt in stitching room.	Complied.
J. F. Frost, . . .	Soles, . . .	9	-	-	-	Good, .	Box belt, . . .	Complied.
J. W. Leary, . . .	Shoe stitching, . . .	-	8	-	-	Good, .	Post time table; provide shipper for belt in stitching room.	Complied.
W. E. Downing, . . .	Shirts, . . .	1	15	-	-	Good, .	Guard shafting in stitching room, .	Complied.
Eugene Barry, . . .	Morocco, . . .	10	-	-	-	Fair, .	Box belt, second floor; rail pin wheel in basement.	Complied.
Joseph Caunt, . . .	Boots and shoes, . . .	18	12	-	1	Fair, .	Post time tables; box belts, third floor; guard roller machine and elevator openings on each floor; repair safety on elevator car; provide communication with each floor and engineer's room.	Complied.
Page Bros., . . .	Wooden heels, . . .	4	1	-	-	Good, .	Post time table, . . .	Complied.
J. F. Harris, Jr., . . .	Boots and shoes, . . .	25	25	-	-	Good, .	Post time tables; designate closets; provide shipper for belt in stitching room.	Complied.
Boston Machine Works, . . .	Shoe machinery, . . .	9	-	-	-	Good, .	Guard shafting on floor, . . .	Complied.
W. H. Holt, Jr., . . .	Boots and shoes, . . .	23	2	-	-	Fair, .	Post time tables; repair safety on dinker machine.	Complied.
L. C. Wilbemy, . . .	Shoe stitching, . . .	-	25	-	-	Good, .	Post time table, . . .	Complied.
Berry Shoe Co., . . .	Boots and shoes, . . .	73	2	-	1	Fair, .	Post time table, . . .	Complied.
N. F. Tucker & Co., . . .	Boots and shoes, . . .	38	12	-	-	Fair, .	Post time tables; box belts, second floor; guard shafting in stitching room; provide shipper for belt in making room.	Complied.
Pevear & Co., . . .	Morocco, . . .	75	-	-	-	Fair, .	Guard crank shaft of engine; guard elevator openings of both elevator wells; new hoisting ropes for both elevators; repair safety on elevator car No. 2.	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.		Females.	Under 14.				14 to 16.
LYNN — Continued.									
H. A. Pevear & Sons, . . .	Morocco, . . .	100	—	—	—	Fair, .	Guard opening of elevator well on second floor.	Complied.	
A. G. Potter, . . .	Wood and paper boxes.	13	12	—	—	Good, .	Box belt, second floor; guard fly wheel of engine.	Complied.	
Clark Manufacturing Co., . .	Wooden heels, . .	7	5	—	—	Good, .	Post time table; guard shafting on floor.	Complied.	
Leonard Shoe Co., . . .	Boots and shoes, . .	75	50	—	—	Good, .	Guard fly wheel of engine; box gear wheels of nailer machine.	Complied.	
Solid Shoe Co., . . .	Boots and shoes, . .	50	14	—	2	Fair, .	Post time tables; procure certificate; shippers for belts in stitching room.	Complied.	
C. M. Howard, . . .	Boots and shoes, . .	60	40	—	—	Fair, .	Provide shippers for belts in stitching room.	Complied.	
G. W. Herrick & Co., . . .	Boots and shoes, . .	115	24	—	—	Fair, .	Designate closet in packing room, .	Complied.	
Murphy Bros., . . .	Boots and shoes, . .	50	30	—	1	Fair, .	Guard fly wheel and crank shaft of engine; procure certificate for minor; repair self-closing hatches, fourth floor.	Complied.	
S. N. Breed & Co., . . .	Planing mill, . .	60	—	—	—	Good, .	Guard shafting in yard; repair safety devices on elevators Nos. 11 and 12; new hoisting rope for elevator No. 2.	Complied.	

I. M. Atwill, . . .	Boots and shoes, .	20	12	-	-	Fair, .	Guard shafting in stitching room; cover set screws on same.	Complied.
Dickinson & Leadbetter, .	Boots and shoes, .	50	20	-	2	Fair, .	Procure certificate for minor, .	Complied.
A. A. Pitman, . . .	Slippers, . . .	12	6	-	-	Fair, .	Designate closet, . . .	Complied.
Litch & Durland, . . .	Counters, . . .	12	-	-	-	Good, .	Box gear wheels of moulding machines.	Complied.
Woodward & Coheey, . . .	Shoe tips, . . .	27	8	-	-	Good, .	Post time tables; provide shipper for belt in stitching room.	Complied.
Brewer, Parker & Co., . . .	Boots and shoes, .	45	30	-	2	Fair, .	Post time tables; procure certificates for minors; guard splitter machine; guard shafting in stitching room.	Complied.
C. H. Morrill & Co., . . .	Shoe stitching, .	2	12	-	1	Good, .	Procure certificate for minor; provide shipper for belt in stitching room.	Complied.
Thomas Plant Shoe Co., . . .	Boots and shoes, .	400	250	-	2	Fair, .	Guard shafting; provide shipper for belt in stitching room, sixth floor.	Complied.
Blanchard & Jaques, . . .	Boots and shoes, .	54	35	-	-	Fair, .	Post time tables, . . .	Complied.
G. W. Ellis & Co., . . .	Shoe stock, . . .	25	-	-	1	Good, .	Post time table; procure certificate for minor.	Complied.
J. S. Moore, . . .	Wooden heels, . . .	3	4	-	-	Good, .	Post time table, . . .	Complied.
Plymouth Shoe Co., . . .	Boots and shoes, .	35	25	-	2	Fair, .	Post time table; guard roller and dinker machines and shafting in stitching room.	Complied.
Morse, Canniffe & Logan, .	Boots and shoes, .	30	30	-	-	Fair, .	Post time tables, . . .	Complied.
Downs & Watson, . . .	Boots and shoes, .	40	20	-	1	Fair, .	Post time tables; guard roller and dinker machines; shipper for belt in stitching room.	Complied.
V. K. & A. H. Jones, . . .	Boots and shoes, .	125	75	-	-	Fair, .	Repair safety on dinker machine, .	Complied.

DISTRICT NO. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LYNN — Concluded.								
F A Kollock,	Boots and shoes, .	11	1	—	—	Fair, .	Post time tables; designate closets; repair safety on dinker machine; provide communication with each floor and engineer's room.	Complied.
B. Warren Skinner,	Shoe stock,	11	4	—	—	Good, .	Post time table,	Complied.
Lynn Heel Co.,	Heels,	10	25	—	—	Good, .	Guard roller machine,	Complied.
J. Otis Marshall,	Mouldings,	20	—	—	—	Good, .	Provide new hoisting rope and safety device for elevator car.	Complied.
W. J. Young,	Counters,	23	—	—	—	Good, .	Box fly wheel of counter machine, .	Complied.
D. J. Richard,	Boots and shoes, .	100	50	—	4	Fair, .	Procure certificates for minors, .	Complied.
Charles R. Rumsey,	Boots and shoes, .	101	70	—	1	Fair, .	Provide new seat for women's closet; repair shipper for belt in stitching room.	Complied.
A. C. Hunt,	Shoe stitching, .	—	40	—	—	Good, .	Post time table; guard shafting; provide shipper for belt in stitching room.	Complied.
C. H. Aborn & Co.,	Boots and shoes, .	200	—	—	—	Fair, .	Guard roller machine,	Complied.
C. W. Varney & Co.,	Boots and shoes, .	90	60	—	—	Fair, .	Guard dinker machine,	Complied.
George H. Allen,	Wood and paper boxes.	12	38	—	—	Good, .	Guard elevator openings on each floor.	Complied.
James Phelan & Son,	Boots and shoes, .	275	100	—	1	Good, .	Place railings around pumps in engine room.	Complied.

J. A. Cook, . . .	Slippers, . . .	55	20	-	-	Fair, .	Post time table; guard shafting; provide shipper for belt in stitching room.	Complied.
Howell & Murray, . . .	Counters, . . .	5	-	-	-	Fair, .	Guard roller machine; repair and ventilate closets.	Complied.
Walter Ryan, . . .	Heels, . . .	8	-	-	-	Fair, .	Provide water-closet, . . .	Complied.
J. B. Renton, . . .	Naphtha, . . .	8	-	-	-	Fair, .	Place railings around openings in floor in extracting room; box belt in store room.	Complied.
Frederick W. Moore, . . .	Slippers, . . .	15	-	-	-	Fair, .	Place guard railings on cellar stairs and around opening of boiler on second floor; box belt, second floor; provide loose pulley and shipper to control power.	Complied.
J. F. Swain & Co., . . .	Boots and shoes, . . .	92	86	-	1	Fair, .	Post time table, . . .	Complied.
E. W. Hunt & Co., . . .	Shoe stitching, . . .	-	20	-	-	Good, .	Guard shafting in stitching room, .	Complied.
John M. Noyes Shoe Co., . . .	Boots and shoes, . . .	100	60	-	3	Fair, .	Guard dinker machine; box fly wheel of roller machine; box belts running through floor of stitching room.	Complied.
Everett B. Henderson, . . .	Wood and paper boxes, . . .	4	5	-	-	Good, .	Post time table, . . .	Complied.
Wm Forsyth & Son, . . .	Cutting boards, . . .	15	-	-	-	Good, .	Guard fly wheel of engine, . . .	Complied.
D. H. & G. H. Graham, . . .	Hats, . . .	20	20	-	-	Good, .	Post time table; cover set screws on shafting; designate water-closets.	Complied.
MARLEHEAD.								
Wright Bros., . . .	Boots and shoes, . . .	36	14	-	-	Fair, .	Provide closet for females, . . .	Complied.
Millett Shoe Co, . . .	Boots and shoes, . . .	15	15	-	-	Fair, .	Provide closet for females, . . .	Complied.
J. B. Litchman, . . .	Boots and shoes, . . .	22	15	-	-	Fair, .	Provide closet for females, . . .	Complied.
Charles Titus, . . .	Boots and shoes, . . .	20	20	-	-	Fair, .	Provide closet for females, . . .	Complied.
Samuel Sparhawk & Son, . . .	Boots and shoes, . . .	41	29	-	-	Fair, .	Provide closet for females, . . .	Complied.

DISTRICT No. 9 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
PEABODY.								
Thomas H. O'Shea, . . .	Morocco, . . .	50	—	—	—	Fair, . . .	Guard fly wheel of engine; place railings around steam fans and pin wheels; box belts on second floor.	Complied.
J. E. & J. H. Osborne, . . .	Leather, . . .	45	—	—	—	Fair, . . .	Box belts, second and third floors; rail pin wheels in basement.	Complied.
L. B. Southwick, . . .	Morocco, . . .	40	—	—	—	Fair, . . .	Guard fly wheel of engine, . . .	Complied.
Franklin Osborne Co., . . .	Leather, . . .	100	—	—	—	Fair, . . .	Guard elevator openings on each floor.	Complied.
Standard Thermometer Co., . . .	Electrical appliances.	61	4	—	—	Good, . . .	Guard crank shaft of engine; new hoisting rope for elevator car.	Complied.
Warren Shaw & Co., . . .	Boots and shoes, . . .	143	7	—	3	Good, . . .	Provide loose pulleys and shippers for belts in stitching room.	Complied.
J. S. Crehore, . . .	Pasted shoe stock, . . .	30	8	—	—	Fair, . . .	Post time tables; guard elevator openings on each floor.	Complied.
F. P. Osborne, . . .	Pasted shoe stock, . . .	26	10	—	2	Fair, . . .	Post time table; designate closet; box belts; guard elevator opening, third floor; new hoisting rope for elevator car.	Complied.
Charles H. Tighe, . . .	Morocco, . . .	20	—	—	—	Fair, . . .	Guard fly wheel of engine and pin wheels in basement.	Complied.

H. E. Holden, . . .	Leather, . . .	30	-	-	Fair, .	Guard fly wheel of leather-polishing machine; provide safety device for elevator car.	Complied.
Downing & Knapp, . . .	Morocco, . . .	30	-	-	Fair, .	Box belts; guard shafting on first and second floors.	Complied.
ROCKPORT.							
Cape Ann Isinglass Co., . . .	Isinglass, . . .	45	-	-	Good, .	Post time table; guard crank shaft of engine.	Complied.
L. M. Haskins, . . .	Isinglass, . . .	38	-	-	Good, .	Post time table, . . .	Complied.
Crowell Manufacturing Co., . . .	Gum labels, . . .	15	-	-	Good, .	Post time tables; box belts, second floor; box gear wheels of presses; guard fly wheel and crank shaft of engine; provide loose pulley and slipper to control power.	Complied.
SALEM.							
Lynch Bros., . . .	Morocco, . . .	85	2	-	Fair, .	Post time tables; rail steam fans; have twelve illiterate minors attend evening school.	Complied.
Parker Bros., . . .	Puzzles, . . .	10	19	-	Good, .	Post time tables; designate closets; guard elevator opening, second floor.	Complied.
Charles S. Fuller & Co., . . .	Boots and shoes, . . .	100	50	-	Fair, .	Guard dinker machine, . . .	Complied.
Fowle & Daley, . . .	Boots and shoes, . . .	22	18	-	Fair, .	Post time tables; guard elevator openings on each floor.	Complied.
Witch City Laundry, . . .	Laundry, . . .	3	7	-	Good, .	Post time table; designate closets; provide closet for females.	Complied.
Salem Electric Light Co., . . .	Electricity, . . .	25	-	-	Good, .	Guard three Hill clutch machines; guard crank shafts of engines on first floor; place railings in front of shafting, fly wheels and belts on first floor; box belts on dynamo running through second floor.	Complied.

DISTRICT No. 9 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
SALEM — Concluded.								
Jonathan Brown & Sons, . . .	Boots and shoes, .	310	140	—	7	Fair, .	Post time tables; procure certificates for two minors.	Complied.
Atlantic Tannery, . . .	Leather, . . .	93	—	—	—	Good, .	Box belt on second floor and pulley in grinding room.	Complied.
J. A. Dane & Co., . . .	Boots and shoes, .	45	30	—	2	Good, .	Provide eight-inch pulley for belt of roller machine; provide shipper for belt in stitching room; guard shaft of brushing machine and splitter machine; have illiterate minors attend evening school.	—
J. Q. Dane & Co., . . .	Pasted shoe stock, .	20	40	—	—	Good, .	Post time tables; have illiterate minors attend evening school.	Complied.
Devlin Bros., . . .	Heels, . . .	10	20	—	1	Good, .	Connect each floor with the engineer's room by electric bells; procure certificate for minor.	Complied.
Warren Page & Co., . . .	Counters, . . .	70	40	—	17	Fair, .	Guard elevator openings on each floor;	Complied.
Loftus & Harrington, . . .	Boots and shoes, .	6	3	—	—	Fair, .	Post time table; designate closet; guard shafting; provide shipper for belt in stitching room.	Complied.
A. W. Warren & Co., . . .	Boots and shoes, .	20	10	—	—	Fair, .	Post time table; designate closet; repair and adjust shipper to main belt.	Complied.
Wilder & Turner, . . .	Toys, . . .	2	12	—	—	Good, .	Post time table; designate closet, .	Complied.

W. P. Proctor, . . .	Boots and shoes, .	12	6	-	-	Fair, .	Post time table; guard shafting; provide shipper for belt in stitching room.	Complied.
H. D. Lefavour, . . .	Boots and shoes, .	16	9	-	-	Fair, .	Post time tables, . . .	Complied.
R. H. Union, . . .	Boots and shoes, .	55	35	-	2	Fair, .	Post time tables; procure certificates; provide shippers for belts in stitching room.	Complied.
Hamilton & Balcomb, . .	Contractors, . .	50	-	-	-	Good, .	Connect each floor of main building with engineer's room by electric bells.	Complied.
J. E. Weymouth & Son, . .	Counters, . .	11	10	-	-	Good, .	Post time table; designate closet; new platform for elevator car.	Complied.
Daniel Glover, . . .	Boots and shoes, .	10	10	-	-	Fair, .	Post time table; designate closet; provide shippers for belts in stitching and making rooms.	Complied.
McMullen & DeCant, . .	Ten-cent goods, .	2	17	-	1	Good, .	Procure certificate for minor; provide seats for females.	Complied.
C. V. Mason & Co., . .	Lasts, . . .	20	-	-	-	Good, .	Place guard railings in front of opening on first floor through which the endless chain moves and around fly wheel of engine.	Complied.
B. J. Mulligan, . . .	Pasted shoe stock, .	15	35	8	19	Good, .	Post time tables; guard elevator openings on each floor.	Complied.
Pranker Manufacturing Co., SAUGUS.	Dress goods, .	110	40	-	5	Fair, .	Ventilate closets and have them kept clean in Mill No. 2; provide urinal for men.	Complied.
Merritt & Cole, . . .	Slippers, . .	23	12	-	-	Fair, .	Post time tables; cover set screws on shafting; guard fly wheel of engine and roller machine; provide shipper for belt in stitching room.	Complied.
George Smith, . . .	Boots and shoes, .	35	15	-	2	Fair, .	Procure certificates for two minors,	Complied.

REPORT OF INSPECTOR HOWES.

Whole number of inspections made,	.	.	.	.	.	.	.	255
Manufacturers, .	.	.	.	.	.	.	.	202
Hotel inspections, .	.	.	.	.	.	.	.	23
Mercantile, .	.	.	.	.	.	.	.	30
Orders issued, .	.	.	.	.	.	.	.	150
Compliances, .	.	.	.	.	.	.	.	149
Whole number employed,	.	.	.	.	.	.	.	18,585
Number of males, .	.	.	.	.	.	.	.	11,073
Number of females, .	.	.	.	.	.	.	.	6,853
Children from fourteen to sixteen years,	.	.	.	.	.	.	.	655
Children from thirteen to fourteen years,	.	.	.	.	.	.	.	4
Whole number of males under sixteen, .	.	.	.	.	.	.	.	364
Whole number of females under sixteen,	.	.	.	.	.	.	.	295

DISTRICT No. 10, JAMES R. HOWES, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.		
ADAMS. Greylock, No. 2,	Cotton yarn,	12	6	—	2	Good,	Children's certificates; post time notices. Complied.
B. F. Phillips & Son,	Woollen cloth,	8	12	—	—	Good,	Post time notices, Complied.
Berkshire Shirt Co.,	Shirts,	12	58	—	2	Good,	Children's certificates, Complied.
BECKET. Union Paper Co.,	Wall and news papers,	19	6	—	2	Good,	Post time notice; guard belts and engine. Complied.
BUCKLAND. Lamson-Goodnow Cutlery Co.,	Cutlery,	218	12	—	6	Good,	Guard belts, Complied.
Edward Kenney,	Dimension lumber,	4	—	—	—	Good,	Guard belts, Complied.
CHARLEMONT. Ferry Manufacturing Co.,	Wood spools,	15	—	—	—	Good,	Post time notice, Complied.
CLARKSBURG. Linwood Mills,	Woollen cloth,	76	51	—	6	Good,	Children's certificates; keep sanitar- ies clean; guard gears and shafting. Complied.
CONWAY. Conway Street Electric Co.,	Electric railway,	6	—	—	—	Good,	Guard belts and engine, Complied.

DISTRICT No. 10 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
COLRAIN.								
Massamet Mills,	Cotton yarns, .	28	12	—	4	Good, .	Post time notice, .	Complied.
DALTON.								
Glennon & Bickerton, . .	Woollen cloth, .	74	40	—	8	Good, .	Children's certificates; guard shaft-	Complied.
Dalton Shoe Co.,	Shoes,	105	58	—	12	Good, .	ing. Children's certificates; guard shaft-	Complied.
Z. & W. M. Crane,	Paper,	59	135	—	1	Good, .	ing. Children's certificates; guard shaft-	Complied.
Glennon & Bickerton, . .	Woollen cloth, .	62	70	—	13	Good, .	ing and elevator openings. Children's certificates; post time	Complied.
T. W. Ransbotham & Co., .	Flour and feed, .	7	—	—	—	Good, .	notice. Guard engine, .	Complied.
Pinney Bros,	Laundry,	2	6	—	—	Good, .	Post time notice, .	Complied.
DEERFIELD.								
S. S. Sprague & Co., . . .	Grain elevator, .	12	—	—	—	Good, .	Guard belts, .	Complied.
ERVING.								
Miller's Falls Manufacturing Co., Upper Mill.	Light hardware, .	175	5	—	3	Good, .	Children's certificates; post time no-	Complied.
Miller's Falls Manufacturing Co., Lower Mill.	Light hardware, .	17	7	—	—	Good, .	tice. Post time notice, .	Complied.

DISTRICT No. 10 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.	Females.			
		Males.						
NORTH ADAMS.								
J. M. Canedy, . . .	Shoes, . . .	135	80	—	6	Good, .	Children's certificates; keep doors unlocked.	Complied.
Barber Leather Co., . .	Dressed leather, .	46	—	—	1	Good, .	Children's certificates; post time notice; guard belts.	Complied.
C. T. Sampson Manuf'g Co.,	Shoes, . . .	200	225	—	10	Good, .	Children's certificates, . .	Complied.
Alexander McDougal, . .	Wagons, . . .	3	—	—	—	Good, .	Guard engine belt, . .	Complied.
T. P. Rose, . . .	Ladies' wrappers, .	1	12	—	—	Good, .	Post time notice, . .	Complied.
G. N. Rich, . . .	Finished lumber, .	4	—	—	—	Good, .	Guard band saw and belts, . .	Complied.
Evening Herald, . . .	Daily paper, . .	24	1	—	1	Good, .	Children's certificates; post time notice.	Complied.
Arnold Print Co, . . .	Print cloth, . .	780	120	—	25	Good, .	Guard belts, . .	Complied.
Wilkinson & Bliss, . .	Shoes, . . .	12	2	—	—	Good, .	Post time notice; designate water-closets; guard fly wheel on engine and belts.	Complied.
North Adams Manuf'g Co.,								
Rice & McMillan, . . .	Woollen cloth, .	150	60	—	7	Good, .	Children's certificates, . .	Complied.
N. L. Millard & Co., . .	Paper boxes, . .	5	15	—	1	Good, .	Designate closets; guard shafting, .	Complied.
	Shoes, . . .	130	160	—	18	Good, .	Guard engines; keep outside doors unlocked and hallways clear.	Complied.
C. T. Sampson Manuf'g Co.,								
R. L. Henry, . . .	Shoes, . . .	246	154	—	9	Good, .	Children's certificates; guard engine,	Complied.
Frank A. Walker, . . .	Laundry, . . .	4	—	—	7	Good, .	Guard belts, . .	Complied.
Walden & Crowley, . .	Flour and feed, .	8	—	—	—	Good, .	Guard gears, . .	Complied.
	Job printing, . .	6	—	—	—	Good, .	Post time notice, . .	Complied.

Beaver Mills,	Cotton cloth,	52	49	—	10	Fair,	Guard shafting; keep closets clean,	Completed.
Johnson Manufacturing Co.,	Ginghams,	214	175	—	18	Good,	Post time notice,	Completed.
W. G. Cady & Co, Ashland Street,	Shoes,	225	175	—	10	Good,	Additional closets,	Completed.
J. F. Gould,	Ladies' wrappers,	1	5	—	—	Good,	Guard belts,	Completed.
Rice & McMillan,	Paper boxes,	6	17	—	5	Good,	Children's certificates; guard shafting,	Completed.
W. R. Clark & Son,	Laundry,	3	3	—	—	Good,	Post time notice,	Completed.
J. M. Canedy,	Shoes,	130	85	—	17	Good,	Children's certificates; post time notice,	Completed.
Seuphine Rieul,	Lumber wagons,	3	—	—	—	Good,	Guard band saw,	Completed.
W. E. Ellis,	Ladies' wrappers,	1	7	—	—	Good,	Post time notice,	Completed.
W. G. Cady & Co, Ashland Street,	Shoes,	275	175	—	17	Good,	Post time notice,	Completed.
Wilkinson & Bliss,	Shoes,	17	12	—	1	Good,	Guard fly wheel and engine,	Completed.
Blackinton Co.,	Woollen cloth,	225	103	—	21	Good,	Children's certificates,	Completed.
ORANGE.								
National Keg and Box Co,	Wood boxes,	65	5	—	5	Good,	Children's certificates; keep sanitaries clean,	Completed.
PITTSFIELD.								
Pontoosuc Mills,	Woollen cloth,	145	105	—	8	Fair,	Guard belts; repair water-closets,	Completed.
Wilson & Horton,	Woollen cloth,	137	89	—	15	Good,	Guard shafting,	Completed.
Wilson & Horton, Belair Mill,	Woollen cloth,	104	39	—	10	Fair,	Better sanitary arrangements,	Completed.
Hulburt Stationery Co.,	Letter paper,	30	42	—	1	Good,	Children's certificates,	Completed.
Pomeroy Woollen Co.,	Woollen cloth,	114	105	—	8	Fair,	Keep sanitaries clean; children's lists,	Completed.
Berkshire Overall Co.,	Overalls,	10	40	—	—	Good,	Keep outside doors unlocked; post time notices,	Completed.
W. E. Tiltson,	Woollen cloth,	176	114	—	34	Good,	Children's certificates,	Completed.
Stanley Electric Co., Morton building,	Electric motors,	201	4	—	2	Good,	Post time notice,	Completed.
Stanley Electric Co., Main Mill,	Electric goods,	200	—	—	1	Good,	Children's certificates,	Completed.

DISTRICT No. 10 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.	Females.			
		Males.						
PITTSFIELD — <i>Concluded.</i>								
J. L. & T. D. Peck Manufacturing Co., Mill No. 1.	Gents' shirting, .	41	32	—	13	Good, .	Children's certificates, .	Complied.
J. L. & T. D. Peck Manufacturing Co., Mill No. 2.	Gents' shirting, .	100	40	—	5	Good, .	Post time notice, .	Complied.
Z. A. Ward,	Finished lumber, .	15	—	—	—	Good, .	Guard band saw and engine, .	Complied.
C. E. Merrill,	Finished lumber, .	85	—	—	—	Good, .	Guard belts and shafting, .	Complied.
Wilson & Horton, Belair Mill, .	Woollen cloth, .	112	48	—	6	Good, .	Guard shafting, .	Complied.
D. M. Collins & Co.,	Knit shirts,	30	195	—	4	Good, .	Guard shafting; children's certificates.	Complied.
SHELBURNE.								
Mayhew & Walkins,	Sewing silk,	5	30	1	1	Good, .	Guard belts,	Complied.
WILLIAMSTOWN.								
Williamstown Manuf'g Co., .	Cotton cloth,	105	90	—	18	Good, .	Children's certificates, .	Complied.
Boston Finishing Co., . . .	Bleached cotton goods.	62	8	—	2	Good, .	Guard gears,	Complied.
Owens Brick Co.,	Bricks,	40	—	—	—	Good, .	Guard shafting,	Complied.
Lindley Bros.,	Wood moulding,	5	—	—	—	Good, .	Guard engine,	Complied.
WENDELL.								
Orange Knitting Co.,	Knit goods,	4	10	—	2	Good, .	Children's certificates, .	Complied.
Frick Piano Case Co., . . .	Piano cases,	15	—	—	—	Good, .	Guard band saws,	Complied.

REPORT OF INSPECTOR WASLEY.

SIR: — I have the honor to submit a tabulated report of inspections made by me, and of other duties, in regard to the laws relating to the employment of labor, inspections of factories, mechanical and mercantile establishments, which I am directed to enforce since being assigned to the eleventh district.

The laws relating to the employment of women and minors have been complied with in a most creditable manner by the manufacturers. I found a little trouble at first by the management not understanding that minors are required to have school certificates on file during vacation, but after an explanation to them the law was readily obeyed.

Dangerous machinery in my district needs a thorough inspection, as many of the managers in the smaller factories and workshops are not particular if they can only increase the production; although the accidents that I have investigated since being assigned to this district in most cases have been caused by the carelessness of the employees.

The elevators which I have inspected are in excellent condition. I find in many manufacturing establishments men employed to report the condition of all elevators every week to the agent or superintendent, which I consider a safeguard against accidents.

I have had but few complaints of women and minors working overtime, and on investigation of such complaints I find the agents and superintendents were unaware of the facts, and when visited by the inspector most readily complied with all requirements of the law relating to the same.

As regards section 1, chapter 543, Acts of 1894, requiring specifications to be furnished in cotton and woollen factories, I find all looms and frames with tickets of specifications of goods manufactured, and also lists of the same posted in different parts of the rooms. In my opinion, the manufacturers, as far as my observation extends, are doing what they can to comply with the law in regard to this provision of the statutes.

Sections 51 to 54, inclusive, of chapter 508 of the Acts of the year 1894, relating to the weekly payment of wages, apply to any person having more than twenty-five employees. I have had some trouble with this law, but after visiting them a few times and explaining to them that the law must be complied with, they have all so far obeyed.

In conclusion, I must say that I have received most courteous treatment from the agents and superintendents of the many factories and workshops which I have inspected in this district, and in all cases they have complied with all orders sent.

Whole number of inspections made,	164
Whole number of orders issued,	79
Whole number of compliances,	75
Whole number of minors between thirteen and fourteen years,	152
Whole number of minors between fourteen and sixteen years,	1,048
Total number of males and females employed,	28,464

DISTRICT No. 11, FRANK C. WASLEY, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LOWELL. Whittier Cotton Mills,	Twines, . . .	9	42	—	1	Fair, .	Repair elevator; procure certificate; guard belt in fire room; designate water-closets.	Complied.
John Pilling, . . .	Shoes, . . .	185	90	—	9	Good, .	Guard fly wheel; post time tables.	Complied.
Harding, Whiteman & Co.,	Duck, . . .	14	15	—	1	Fair, .	Procure certificate; designate water-closets; post time notice.	Complied.
Pickering Knitting Co.,	Knit goods, . .	26	64	—	4	Good, .	Guard set screws, . . .	Complied.
Harris Loom Shop, . .	Loom harnesses, .	23	13	—	5	Good, .	Procure five certificates, . . .	Complied.
Bleachery Co., . . .	Cotton cloth, . .	280	37	—	8	Good, .	Guard crank shafts, . . .	Complied.
Amraytoon Co., . . .	Paper tubes, . .	17	10	—	4	Good, .	Guard belt, . . .	Complied.
Shaw's Hosiery, . . .	Hosiery, . . .	58	184	—	9	Good, .	Guard set screws, . . .	Complied.
Merrimack Croquet Co.,	Croquet sets, piano stools.	54	2	—	—	Good, .	Guard set screws, . . .	Complied.
Walsh Worsted Mill, . .	Worsted yarn, . .	40	90	3	30	Good, .	Guard set screws, . . .	Complied.
S. Stott's Shop, . . .	Worsted mill supplies.	20	—	—	—	Good, .	Guard belt, . . .	Complied.
American Shuttle Co.,	Shuttles, . . .	30	—	—	—	Good, .	Guard set screws, . . .	Complied.
Howarth & Watson, . .	Paper tubes, . .	18	10	—	3	Good, .	Guard set screws, . . .	Complied.
A. Batchelder, . . .	Bungs, . . .	12	—	—	—	Good, .	Guard set screws, . . .	Complied.
American Bolt Co., . .	Bolts, . . .	100	—	—	4	Good, .	Guard saw, . . .	Complied.

DISTRICT No. 11 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.	Females.	Under 14.					
				14 to 16.	16 to 18.				
LOWELL — <i>Continued</i>									
F. S. Perkins,	Machinists' tools, .	17	—	—	—	Good, .	Guard belt,	Complied.	
Davis & Sargent, . . .	Boxes and furni- ture.	40	—	—	—	Good, .	Guard set screws and opening in first floor.	Complied.	
Faulkner's Mill, . . .	Flannel dress goods.	252	148	—	4	Fair, .	Guard belt and set screws, .	Complied.	
White Bros.' Tannery, .	Leather,	410	—	—	2	Good, .	Guard set screws,	Complied.	
C. I. Hood,	Patent medicines, .	375	175	—	—	Good, .	Guard set screws and printing ma- chine	Complied.	
Lowell Hosiery,	Hosiery,	85	88	—	7	Good, .	Guard set screws and fly wheel, .	Complied.	
Criterion Knitting Co., .	Underwear,	15	85	—	—	Good, .	Guard set screws,	Complied.	
Lowell and Suburban Co.	Transportation, .	9	—	—	—	Good, .	Guard cranks and shafts of four engines.	Complied.	
Felting Mills,	Hair felting, . . .	11	—	—	—	Fair, .	Guard set screws on carding ma- chines.	Complied.	
U. S. Bunting Co, . . .	Bunting,	325	420	3	47	Good, .	Guard set screws,	Complied.	
Stott's Mills,	Woollen dress goods.	107	4	—	3	Good, .	Guard set screws on shafting and filling machine.	Complied.	
Middlesex Steam Laundry, Entwistle Machine Shop, .	Laundry,	8	30	—	—	Fair, .	Guard fly wheel,	Complied.	
Gates' Belt Shop, . . .	Cotton machinery, .	23	—	—	—	Good, .	Guard set screws,	Complied.	
	Leather belting, .	11	—	—	—	Good, .	Unlock door,	Complied.	

Massachusetts Cotton Mills,	Cotton goods,	650	1,550	—	50	Good,	Guard set screws, crank shafts and fly wheel of Harris & Corliss engine, belt and pulley in spinning room; set screws in No. 2 mule room.	Complied.
Lowell Manufacturing Co.,	Carpets and rugs,	900	1,000	—	121	Fair,	Guard gears on three woollen pickers, elevator well, set screws on twisting machine, set screws on cotton picker.	Complied.
Elm Mills Woollen Co.,	Finished woollen goods.	5	2	—	—	Good,	Guard set screws on shafting,	Complied.
Appleton Manufacturing Co.,	Cotton goods,	400	600	—	31	Good,	Guard beaming machine, belt in engine room, fan in dye house.	Complied.
Kitson Machine Co.,	Cotton machinery,	242	2	—	—	Good,	Guard set screws,	Complied.
Doherty Bros. Foundry,	Iron castings,	30	—	—	—	Fair,	Guard gears on turret machine; remove set screws from shafting.	—
Lowell Machine Shop,	Cotton machinery,	1,556	—	1	18	Good,	Guard set screws in thirteen departments, belt, crank shaft of two engines, saw and fly wheel.	—*
R. W. Kendall & Co.,	Print cotton goods,	53	7	—	—	Good,	Guard set screws and gears,	Complied.
S. W. Fletcher,	Sashes and blinds,	8	—	—	—	Fair,	Guard set screws, fly wheel and two belts.	Complied.
C. F. Hatch & Co.,	Paper boxes,	11	34	—	—	Good,	Guard set screws,	Complied.
Hamilton Manufacturing Co.,	Cotton goods,	1,181	936	1	95	Good,	Guard set screws, belt running through floor, pump arm to engine; designate exit to fire-escape.	Complied.
Columbia Co.,	Cash registers,	7	1	—	—	Good,	Guard set screws,	Complied.
Beaver Garment Co.,	Leggings,	1	9	—	—	Good,	Post time notice; guard shaft under sewing-machine tables.	Complied.

* Complied in part.

DISTRICT No. 11 — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LOWELL—Concluded.								
H. R. Barker & Co., . . .	Steam, gas and water pipes.	49	1	—	—	Fair, .	Guard set screws and fly wheel. .	—*
Lowell Card Co., . . .	Card clothing, .	13	3	—	—	Good, .	Guard set screws and fastening on elevator door.	—*
Tremont and Suffolk Mills, .	Cotton goods, .	864	1,098	—	95	Good, .	Guard set screws in pulleys of looms, saw, set screws in shafting.	—*
Amasa Pratt, . . .	House finish, .	48	2	—	—	Fair, .	Guard seven saws,	—*
LAWRENCE.								
Russell Paper Mill, . . .	Paper, . . .	201	24	—	—	Good, .	Guard set screws, fly wheel and pulleys in basement.	Complied.
Kunhardt Mill, . . .	Men's wear, . .	186	84	—	11	Good, .	Procure two certificates; guard set screws.	Complied.
Lawrence Duck Co., . . .	Cotton duck, .	85	95	8	6	Good, .	Guard elevator hole and set screws,	Complied.
Robinson's Clothing Co., . .	Card clothing, .	8	3	—	—	Good, .	Guard set screws and belt, . .	Complied.
Bacon Paper Co., . . .	Paper, . . .	50	7	4	—	Fair, .	Guard set screws and pulleys, .	Complied.
L. Sprague Co., . . .	Bobbins and spools, 147	147	—	4	1	Good, .	Repair stairs; guard set screws, .	Complied.
Washington Mills, . . .	Cloaking and dress goods. 2,129	2,129	1,587	78	269	Good, .	Guard set screws, opening, pulleys on new engine, door to elevator and set screws on filing machine; designate water-closets	Complied.

Prospect Worsted Mill,	Worsted yarn,	64	132	13	25	Good,	Guard set screws on shafting and carding machines.	Complied.
Lawrence Dye Works,	Worsted cloth,	27	3	-	-	Fair,	Designate water-closets, . . .	Complied.
Merrimack Paper Co.,	Paper, . . .	63	27	-	-	Good,	Guard set screws, belt and opening in floor.	Complied.
E. Frank Lewis,	Scoured wool,	100	-	-	-	Good,	Guard set screws, . . .	Complied.
Merrimack Paper Co., New Mill,	Paper, . . .	28	5	-	-	Good,	Guard set screws, . . .	Complied.
Kimball Shoe Factory,	Shoes, . . .	292	58	-	2	Fair,	Guard shaft, . . .	Complied.
Farwell Bleachery,	Cloth, . . .	105	20	-	3	Good,	Guard belts, . . .	Complied.
ANDOVER.								
Craighead & Kintz,	Artistic bronze goods,	54	5	-	3	Good,	Procure three certificates; guard set screws.	Complied.
Smith & Dove,	Shoes, thread and twines.	149	124	23	25	Good,	Guard pulley, belt, crank shaft, four fans and stairs.	Complied.
Marland Mills,	Dress goods,	122	90	3	11	Good,	Guard crank and shaft; procure nine certificates.	Complied.
M. T. Stevens & Sons,	Dress goods,	99	79	-	15	Good,	Procure four certificates; guard set screws.	Complied.
Davis & Furber,	Woollen machinery.	451	10	-	-	Good,	Guard saw, set screws and fly wheel,	Complied.
North Andover Mills,	Flannels,	59	36	5	6	Good,	Guard crank shaft, . . .	Complied.
METHUEN								
Wool Hat Manufacturing Co.,	Wool hats,	90	25	1	2	Good,	Guard shafting under machine tables,	Complied.
Methuen Co.,	Cotton goods,	111	225	2	16	Good,	Guard set screws, fly wheel, belt and elevator well.	Complied.
Tremont Worsted Co.,	Men's wear,	15	10	-	-	Good,	Guard belt on floor in drying machine.	Complied.

* Recent orders.

DISTRICT NO. 11 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
METHUEN — <i>Concluded.</i>								
Wendell Bros., . . .	Woollen yarn, .	17	—	—	—	Good, .	Guard set screws, .	Complied.
U. S. Tubular Bell Co., . .	Tubular bells, .	5	—	—	—	Good, .	Guard belts running through two floors.	Complied.
WESTFORD.								
C. G. Sargent & Sons, . .	Wool-wasting machinery.	4	—	—	—	Fair, .	Guard set screws, .	Complied.
DRACUT.								
Beaver Brook Mill, . . .	Paper, . . .	9	2	—	—	Fair, .	Guard crank shaft and set screws, .	Complied.
Dracut Woollen Mills, . .	Shawls and cloth,	280	70	—	18	Fair, .	Guard set screws, .	Complied.
NORTH CHELMSFORD.								
Geo. C. Moore, . . .	Worsted yarn, .	115	95	—	12	Fair, .	Guard set screws, .	Complied.
NORTH BILLERICA.								
Talbot's Mills, . . .	Flannels and dress goods.	214	110	—	12	Good, .	Guard set screws, .	Complied.
TEWKSBURY.								
Atherton Machine Co., . .	Machinery, . .	94	8	—	8	Fair, .	Guard set screws and crank shaft, .	Complied.

DISTRICT No. 11, EDWARD B. PUTNAM, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LAWRENCE.								
Russell Paper Co.,	Paper,	175	15	—	1	Fair, .	Guard fly wheel and crank shaft; box belt; repair railing.	Complied.
Wright Manufacturing Co.,	Dress braid,	6	44	—	1	Fair, .	Post time tables,	Complied.
Dustin Machine Co.,	Machinery,	30	—	—	—	Fair, .	Guard set screws; box belt,	Complied.
The J. H. Horne Sons Co.,	Paper mill machinery.	54	—	—	—	Fair, .	Guard set screws; rail fly wheel on punch and gear.	Complied.
Munroe Felt and Paper Co.,	Paper,	30	1	—	—	Fair, .	Box belt; guard set screws,	Complied.
Brown & Ackroyd,	Dress goods,	20	50	—	4	Good, .	Guard set screws,	Complied.
Joseph Battles,	Textile machinery,	22	2	—	4	Fair, .	Guard set screws; comply with fifty-eight-hour law.	Complied.
Rhodes & Moulton,	Laundry,	8	22	—	—	Good, .	Guard set screws,	Complied.
J. F. Bingham,	Sheet metals,	39	1	—	—	Fair, .	Guard set screws,	Complied.
Lawrence Duck Co.,	Cotton duck,	100	100	—	9	Fair, .	Guard set screws; box belt,	Complied.
Globe Worsted Mill,	Worsted yarn,	29	61	3	14	Fair, .	Rail crank shaft and passageway; guard set screws; designate water-closet.	Complied.
J. Hollings,	Dress goods,	3	2	—	—	Fair, .	Guard set screws,	Complied.
Samuel Smith,	Machinery,	12	—	—	—	Fair, .	Guard set screws,	Complied.
Briggs & Allyn Manuf'g Co.,	Wood work,	80	—	—	—	Good, .	Guard set screws and band saw; rail dynamo.	Complied.
W. H. Hanson,	Dress goods,	22	10	—	—	Good, .	Box belts; guard set screws,	Complied

DISTRICT No. 11 — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
LAWRENCE — <i>Concluded.</i>								
Burnham & Page, . . .	Belting and roll covering.	17	—	—	—	Good, .	Guard set screws, . . .	Complied.
American Card Clothing Co., .	Card clothing, .	12	3	—	—	Good, .	Guard crank shaft and set screw; box belt; designate water-closet.	Complied.
Robert Carruthers, . . .	Loom harness, .	13	4	—	—	Good, .	Guard elevator entrances and set screws; rail crank shaft; designate water-closet.	Complied.
Merrimac Paper Co., . . .	Book paper, . .	90	35	—	—	Good, .	Box belts; protect opening; rail crank and shaft; guard set screws.	Complied.
Prospect Worsteds Mills, . . .	Worsted yarns, .	250	200	—	—	Good, .	Guard set screws, . . .	Complied.
Arlington Mill, . . .	Woollen goods, .	1,400	1,300	14	157	Good, .	Box belt, . . .	Complied.
The Pemberton Co., . . .	Colored cottons, .	263	440	—	41	Good, .	Rail dynamos and crank shaft, .	Complied.
METHUEN.								
The Methuen Co., . . .	Cottons, . .	160	265	—	12	Good, .	Box belts; guard set screws; box gear on main shaft.	Complied.
The Knitted Fabrics Co., . .	Astrachans and jerseys.	25	15	—	—	Good, .	Guard set screws; rail crank shaft,	Complied.
J. M. Tenney, . . .	Wool hats, . .	80	20	—	—	Fair, .	Bar to outside doors on second and third floor; box belts and sewing-machine shaft; control power on sewing-machine shaft; guard set screws.	Complied.

REPORT OF INSPECTOR GRIFFIN.

SIR:—In tendering you a summary of my work for the past year, conjointly with my tabulated statement, I deem it unnecessary to dwell at any great length upon the evils connected with the manufacture of clothing in whole or in part in tenement-houses. While the public in general is no doubt now fairly conversant with many of the evils pertaining to this system, still it may not be amiss to briefly refer to a few of them.

One of its most baneful features is the low wages paid for tenement-made work, and unfortunately it is one that legislation cannot directly affect. This disgraceful feature is caused, first, by the unbounded cupidity of contractors and merchants, who take advantage of the poverty and suffering of a most ignorant class of people; second, by the unnecessary and unpraiseworthy engagement of women of the middle or well-to-do-class, who simply do this work for pin-money, thereby setting a low standard of wages for the employer to force upon the needy; third, the entire want of organization of any kind by the unfortunate class who are obliged to engage in it for a livelihood. When women are paid three and three-fourths cents for making a pair of overalls, or forty-five cents per dozen, six and one-fourth cents for an entire shirt or lady's wrapper, or seventy-five cents per dozen, ten cents for finishing a pair of men's trousers, or four cents per hour, the average time required to do a pair being two and one-half hours, then I am led to believe that the public will agree to the above statement that the wages paid are scandalous. Again, if the women who do this work for pin-money, or to kill time, could look into the miserable homes — if homes they may be called — of their less fortunate sisters, and see the fierce struggle being waged there to supply themselves and their offspring with bread, and the long, weary hours and incessant toil of these poor souls, surely they would no longer remain abettors to such misery, but would find some other way of employing their time or securing their extra spending money. A constant and vigorous public agitation should and can supply a remedy. Also, I believe the time has now arrived when the clothing merchants should compel their contractors to finish the entire garment in their respective shops. It is folly to say it can't be done, for it is done and done successfully by some of them to-day.

Another evil, and one that the law directly deals with, is the existence of infectious and contagious diseases in tenements where clothing is made. The present law prevents the manufacture of clothing in tenement-houses where others not members of the

family are employed ; but it is permissible for a private family, or any member thereof, to take work to be done at home, provided a license is obtained from this office, and their apartments are kept in a cleanly condition. One of the regulations governing this license is that immediate notice must be given if any infectious or contagious disease should occur either in the family holding the license or in any other family in the building. Here is where the effective power of the license appears. The name and address of every applicant for a license, together with the name and address of their employer and the kind of work they desire to do at home, are kept on record, whether a license is granted or refused. A daily list of infectious and contagious diseases reported is procured from the Board of Health, which gives the name and address of the patient and the nature of the disease. By comparing this list with our record of applicants, it is at once discovered whether or not any disease exists in houses where clothing is made or finished. If upon said comparison any disease is found to be in any of said buildings, an immediate visit is made, and if the sickness is in the family making the clothing, they are warned not to return the work, the employer is notified not to receive it in case an attempt is made to return it, the license is revoked, the Board of Health notified, and by them the clothing is taken from the house to their fumigating station, and, when thoroughly disinfected, returned to the employer. If, however, the sickness is not in the family making the clothing, but in some other part of the building, the license is revoked, the goods sent back to the shop, and the employer is notified to send no more clothing there. Thus the license clause of the law not only prevents the indiscriminate manufacture of clothing in tenement-houses, but it also guards against the carrying of disease in said clothing. During the past year, while several cases of diphtheria and scarlet-fever have occurred in the same building where men's trousers were being finished, happily in only one case was any clothing found in the apartments of the family where the disease existed. This consisted of six pairs of trousers, and they were taken and fumigated, as previously stated. But in the list of applicants who have been refused a license on account of their dirty or filthy surroundings, hardly a week passes but either diphtheria or scarlet-fever is reported among them. Again, several have applied for a license in houses where contagious disease existed at time of application. To this most important part of the law I have given my immediate and careful attention, and I firmly believe that through the enforcement of our present law there is no State in the country where clothing is manufactured under healthier or cleaner conditions than in Massa-

chusetts. However, absolute protection to the public health against contagious and infectious diseases in the sale and manufacture of clothing can be secured and guaranteed only by the making of the entire garment in regular, well-ventilated and sanitary workshops.

A noticeable fact resulting from the license clause is the increased number of women employed finishing trousers in the various shops. A dozen or more may now be found where formerly only one or two were employed. The reason to which this change is attributable is clearly apparent. Except during the dull period the demand for home finishers is greater than the supply, no doubt caused by the constant refusal of a license to so many on account of the unclean condition of their dwellings; consequently they are obliged to seek work in the shops, and the contractors are forced to employ them.

Another factor that links itself closely with non-sanitary houses is the unimproved condition of many of them. Buildings that were originally intended for one or two families are now divided into tenements of one or two rooms, for the accommodation of five or six families. This increased number of people occupying them inevitably causes greater injury to the property, and in time they become quite dilapidated. Instead of a thorough renovation of them by the owner, generally the most he will do is to occasionally limewash or paint them. While this places them in a fairly clean condition, they still retain a shabby and poor appearance. Considerable difficulty is encountered at times, endeavoring to have the owners or agents do any limewashing or painting, and very often this reasonable and needful improvement can be procured only by refusing the tenants a license, or revoking it if they hold one, thereby obliging them to move to more suitable quarters unless the landlord complies with the request.

Another source of trouble arises from the continual removal of persons having a license, without sending a notice of such removal. In such cases a notice is sent to the party registered as their employer, stating that their license has been revoked for failure in observing the regulations governing said license. If they are still in his employ, they invariably return with the requisite address. Many, however, change their place of employment, and they can only be reached by periodically obtaining from the different contractors a list of their licensed home workers. Of course others move and are never heard from, but it is safe to presume, after using the above-mentioned means of discovering their whereabouts, that they no longer take work home.

A synopsis of the work accomplished among the home workers may be afforded by the following table :—

Number of tenements inspected during the year,	591
Number of tenements granted a license,	174
Of this number on reinspection there were revoked,	28
Number licensed tenements remaining,	146
Number of tenements refused a license,	169
Number of licensed tenements Oct. 5, 1894,	433
Number reinspected this year and license renewed,	141
Number reinspected this year and license revoked,	107
Total number of licensed tenements Oct. 5, 1895,	472
Number of revisits to licensed and unlicensed tenements during year,	397
Total number of tenement visits made during year,	988

A continual round of visits to houses in the poorer, or, as it is often called, the slum district, is absolutely necessary, to insure a strict observance of the regulations governing the license and to guard against any violations of the law. Three attempts were made during the year to establish tenement-house workshops. Morris Feinstein, formerly having a workshop at 32 Battery Street, Boston, moved to a small cottage, numbered 217 Marion Street, East Boston. Three very small rooms on the first floor were used as a workshop to manufacture trousers, and three others on the second floor were occupied by himself and family, consisting of wife and four children. The second day after his removal the clothing merchants by whom he was employed were notified that all garments manufactured there after date must be tagged "tenement made." They at once withdrew their garments, and informed him that they would send him no more work until his workshop conformed to the law. In compliance he was obliged to cut off all connection of shop from living apartments; to make a separate and distinct entrance thereto; to tear away partitions dividing rooms, thereby making one large room; to paint and limewash the same, and to put in another water-closet. The other two were vest makers, one in East Boston and one in South Boston. They both formerly had good workshops, but, business becoming slack, they transferred their workrooms to their dwellings, in order to save shop rent. The tag section of the law again proved its efficiency; the clothing merchants were notified as in the case above mentioned, and both parties were forced to secure clean and legitimate workshops.

A tour through the tailor shops on the east side of New York developed nothing in the line of tenement-made work, with one exception. On the registered list of persons employed outside of the workshop of Blumberg & Garfinkle, manufacturers of trousers

for Boston dealers, several tenement-house finishers were discovered, and, although no clothing was found there at time of visit, nevertheless, on returning to Boston and apprising the different dealers of the above fact, they refused to send him any more work. I also visited places where Boston clothing was being made in Newark and Plainfield, N. J., but found nothing to warrant any interference by this department

The majority of the tailor shops in Boston are in a fairly good condition. Many of them, however, were badly in need of lime-wash, and most of the orders issued to that effect have been complied with. The principal fault to be found with them is the dirty condition of their water-closets. I have tried to impress upon their minds the necessity of keeping these clean, and on several occasions severe measures have been taken to compel them to do so; for instance, in the building numbered 32 Battery Street, Boston, are six tailor shops; after warning them on several occasions, without success, to keep the shop floor, stairs and entryway clean, and to have the water-closets regularly washed, a notice was issued to the various merchants that said building was in a filthy condition, and an unfit place to make clothing. Result, the contractors were notified by the merchants that no more clothing would be sent there until they had put their shops in cleanly and suitable condition, and received a note to that effect from the inspector. The building has been limewashed and painted from top to bottom, and arrangements have been made with the agent whereby the water-closets are washed twice a week, the stairs and entryway once a week, the expense incurred being evenly divided among them, and added to the rent.

Carelessness in keeping a time table posted has compelled the issuance of many orders to that purpose.

The employment of minors has been slight, as my tabulated statement will show, and the law obliging them to keep certificates on file has been generally observed.

In closing, I desire to express my thanks to the Board of Health of Boston for the courteous and invaluable assistance rendered to me in the performance of my duties.

Whole number of tenement visits,	986
Whole number of workshops inspected,	138
Whole number of orders issued,	140
Whole number of compliances,	126
Whole number of children between thirteen and fourteen years,	7
Whole number of children between fourteen and sixteen years,	33
Number of males employed,	1,450
Number of females employed,	1,666
Total number males and females employed,	3,156

SPECIAL DUTY,

JOHN E. GRIFFIN, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON.								
P. Lavin,	Knee pants,	5	1	—	Fair,	Post time table,	Complied.	
Macullar, Parker & Co.,	Custom and ready-made clothing.	97	330	—	Good,	Post time table; obtain certificates for two minors.	Complied.	
Henry Halperin,	Vests,	6	7	—	—	Post time table; furnish and designate water-closet.	Complied.	
Holmes & Kimball,	Trousers, shirts and overalls.	23	68	—	Good,	Post time table; obtain certificates for minors.	Complied.	
Marks Goldberg,	Trousers,	11	15	—	Bad,	Post time table; obtain certificate for minor; supply and designate water-closet; limewash shop.	Complied.	
L. Cohen,	Coats,	13	6	—	Bad,	Secure proper workshop,	Abolished.	
Shuster Bros.,	Trousers,	6	4	—	Bad,	Secure proper workshop,	Abolished.	
Elkin & Weinstein,	Trousers,	13	9	—	Bad,	Limewash walls and ceiling of shop; obtain certificate for minor; clean water-closets.	Complied.	
Shapiro & Silverman,	Coats,	6	3	—	Fair,	Post time table,	Complied.	
Max Goldstein,	Trousers,	4	10	—	Fair,	Post time table,	Complied.	
Louis Arken,	Trousers,	9	7	—	Fair,	Post time table,	Complied.	
Morris Sigartofski,	Trousers,	9	13	—	Fair,	Post time table,	Complied.	
Benj Sugerman,	Trousers,	6	7	—	Fair,	Post time table,	Complied.	
J. Podolski,	Trousers,	30	9	—	Fair,	Post time table,	Complied.	
J. Sliwkoski,	Coats,	35	6	—	Fair,	Post time table,	Complied.	

Corvin & Cohen, Segal & Louis, . . .	Coats, . . . Trousers, . . .	16 6	8 5	- -	- -	Poor, Bad, .	Paint and limewash shop, Put shop in a cleanly condition and keep it clean; post time table.	Complied. Complied.
Lavine & Fein, . . .	Children's jackets, Trousers, . . .	8 7	3 3	- -	- -	Bad, Bad, .	Clean and limewash shop; post time table.	Complied.
Finklestein & Newman, Lyon & Sworoski, . . .	Trousers, . . . Custom and ready- made clothing.	12 16	30 12	- -	- -	Bad, Fair, .	Clean and limewash shop; post time table.	Complied.
Israel Freedman, Benj. Orintlicher, . . .	Trousers, . . . Trousers, . . .	9 9	10 5	- -	- -	Bad, Bad, .	Supply water-closet; limewash shop; post time table.	Complied.
Zimmerman & Poletski, Brown & Gilstein, . . .	Trousers, . . . Vests, . . .	19 7	8 10	- -	- -	Bad, Bad, .	Supply water-closet; limewash shop; post time table.	Complied.
Samuel Price, . . .	Trousers, . . .	7	10	-	-	Bad, .	Limewash shop; post time table, Limewash shop and keep it clean; supply water-closet; wash entry and stairway; post time table.	Complied.
Adleson, Sacks & Swig, A. Aronson, . . .	Children's jackets, Trousers, . . .	10 10	6 10	- -	1 -	Poor, Poor, .	Limewash shop; post time table, stairway; obtain certificate for minor; post time table.	Complied.
M. Rosenthal, . . .	Trousers, . . .	8	6	-	-	Poor, .	Keep entry and stairway clean; limewash and clean water-closet and shop; post time table.	Complied.
B. Wolfson, . . .	Knee pants, . . .	3	2	-	-	Poor, .	Limewash and clean water-closet and shop; post time table. Limewash and clean shop, stairs and entryway; post time table.	Complied.

SPECIAL DUTY, JOHN E. GRIFFIN, Inspector — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON — Continued.								
M. D'Pesa,	Coats,	12	5	—	3	Fair, .	Obtain certificates for minors; designate water-closets; post time table.	Complied.
Nuzzo & Basile,	Coats,	20	1	—	—	Good, .	Post time table,	Complied.
Nathan Szathmary,	Coats,	15	4	—	—	Fair, .	Post time table,	Complied.
M. Jackson,	Coats,	13	12	2	2	Fair, .	Obtain certificates for minors, .	Complied.
C. Jardini,	Coats,	5	1	—	1	Fair, .	Obtain certificate for minor, .	Complied.
Brown & Gilstein,	Vests,	19	8	1	1	Fair, .	Obtain certificate for minor, .	Complied.
B. Orintlicher,	Trousers,	10	9	3	—	Fair, .	Discharge at once two females under thirteen years; obtain certificate for minors.	Complied.
Jacob Feinstein,	Trousers,	8	12	—	—	Fair, .	Post time table,	Complied.
Morris Carmensin,	Coats,	14	16	—	—	Fair, .	Post time table,	Complied.
B. Berman,	Custom and ready-made clothing.	2	1	—	—	Fair, .	Post time table,	Complied.
J. Comiskey,	Coats,	13	13	—	1	Fair, .	Obtain certificate for minor, .	Complied.
A. Bloom,	Coats,	20	17	—	—	Fair, .	Guard belting,	Complied.
A. Abrams,	Coats and trousers,	25	26	—	—	Fair, .	Post time table; limewash workshop, .	— *
Celler & Adler,	Coats,	6	9	—	—	Fair, .	Post time table,	Complied.
Feigenbaum Bros.,	Coats,	6	2	—	—	Fair, .	Post time table,	Complied.
Weinberg, Levi & Co.,	Coats,	14	9	—	—	Fair, .	Post time table,	Complied.
James Rush & Co.,	Coats,	12	4	—	—	Fair, .	Post time table,	Complied.
Jacob Spector,	Coats,	13	5	—	1	Fair, .	Post time table; clean water-closet; obtain certificate for minor.	Complied.

Judkois & Phillips, Morris Cohen, . . .	Coats, . . . Coats, . . .	23 18	8 10	- 1	- 2	Fair, Fair, .	Post time table, Discharge boy thirteen years of age; post time table; obtain certificate for minors.	Completed. Completed.
M. Goldberg, . . .	Coats, . . .	16	12	-	1	Fair, .	Obtain certificate for minor; post time table.	Completed.
Morris Levi, . . .	Coats, . . .	3	7	-	-	Poor, .	Limewash and paint workshop and water-closets, and keep them in a cleanly condition.	In process.
Selig Bros., Jacob Shanahofsky, Jacob Insem, . . .	Coats, . . . Coats, . . . Vests, . . .	6 5 8	5 10 3	- - -	- - -	Fair, Good, Poor, .	Clean water-closet, . . . Post time table, . . . Clean workshop and supply water- closet.	Completed. Completed. Moved.
F. Matersky, Louis Bloom, D. Nurenberg, M. Yevetsky, J. Murray, . . .	Custom clothing, . Trousers, . . . Coats, . . . Coats, . . . Trousers, . . .	7 3 8 20 5	3 7 12 11 12	- - - - -	- - 1 1 -	Fair, Fair, Good, Fair, . Fair, .	Post time table, . . . Post time table, . . . Post time table, . . . Limewash and paint water-closet, . Post time table, . . .	Completed. Completed. Completed. Completed. Completed.
L. King, . . . R. Schresky, Nathan Lefman, F. Schwender, . . .	Coats, . . . Coats, . . . Coats, . . . Coats, . . .	4 3 3 4	2 2 2 2	- - - -	- - - -	Fair, Fair, Fair, Fair, .	Post time table, . . . Post time table, . . . Post time table, . . . Post time table, . . .	Completed. Completed. Completed. Completed.
M. Slater, . . . Wendell Phillips Tailoring Co., J. Witte, . . .	Coats, . . . Trousers, . . . Children's clothing, Butcher frocks, .	9 17 2	26 14 4	- - -	- 2 1	Fair, Fair, Fair, .	Post time table, . . . Post time table, . . . Post time table, . . .	Completed. Completed. Completed.
Googins & Norbey, C. G. Kellogg & Co., J. Abrams, . . .	Coats, . . . Vests, . . . Coats, . . .	18 5 24	9 5 16	- - -	- - -	Fair, Fair, Fair, .	Post time table, . . . Supply water-closet; post time table, Post time table; supply water-closet, Post time table, . . .	Completed. - Completed.
M. Barron, . . . B. Goodstein, . . .	Coats, . . . Buttonhole maker, .	3 3	3 3	- -	- -	Fair, Fair, .	Post time table, . . .	Completed.

* Partly complied.

SPECIAL DUTY, JOHN E. GRIFFIN, Inspector — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON — <i>Concluded.</i>								
Levy & Gold, . . .	Coats, . . .	15	10	—	Fair, .	Post time table; supply water-closet,	—	
Isador Hackel, . . .	Coats, . . .	9	2	—	Poor, .	Supply water-closet; post time table,	—	
M. Cohen, . . .	Vests, . . .	7	7	—	Bad, .	Linewash shop; supply water-closet.	—	
L. Schlager, . . .	Coats, . . .	5	11	—	Fair, .	Post time table, . . .	Complied.	
D. Blum, . . .	Knee pants, . . .	2	—	—	Fair, .	Disconnect shop from dwelling, .	—	
EAST AND SOUTH BOSTON.								
Miss Lowe, . . .	Vests, . . .	—	4	—	Poor, .	Secure proper workshop; clothing merchant to tag all garments manufactured there after date "tenement made."	Abolished.	
Mrs. A. F. Sparling, . . .	Vests, . . .	—	4	—	Poor, .	Secure proper workshop; clothing merchant to tag all garments manufactured there after date "tenement made."	Abolished.	
Morris Feinstein, . . .	Trousers, . . .	4	4	—	Bad, .	Disconnect workshop from dwelling; make a separate entrance to shop; supply water-closet; paint and linewash shop; clothing merchant to tag all garments manufactured there after date "tenement made."	Complied.	

Evans & Bissett,	.	Vests,	.	5	19	-	Fair,	.	Post time table; supply water-closet;	Completed.
Thos. Griffiths,	.	Vests,	.	3	20	-	Fair,	.	Place door on men's water-closet;	Completed.
Mary E. Norton,	.	Vests,	.	-	16	-	Good,	.	Designate closets.	Completed.
Mrs. Wilder,	.	Vests,	.	-	6	-	Good,	.	Post time table,	Completed.
Mrs. Moreland,	.	Vests,	.	-	10	-	Good,	.	Post time table,	Completed.
Carrie E. Mallard,	.	Vests,	.	-	14	-	Fair,	.	Post time table,	Completed.
Sarah H. Strickland,	.	Vests,	.	-	3	-	Fair,	.	Post time table,	Completed.
Miss Green,	.	Vests,	.	-	16	-	Fair,	.	Post time table,	Completed.
J. A. Kerrigan,	.	Vests,	.	1	4	-	Fair,	.	Post time table,	Completed.
Nellie Merrill,	.	Vests,	.	-	7	-	Fair,	.	Post time table,	Completed.
Mrs. A. F. Sparling,	.	Vests,	.	-	8	-	Good,	.	Post time table,	Completed.
Mrs. Wm. Murray,	.	Vests,	.	1	16	-	Fair,	.	Post time table; disconnect work-shop from dwelling.	In process.

REPORT OF INSPECTOR PLUNKETT.

SIR : — A review of the work performed during the year in the enforcement of the law regulating the manufacture of clothing in tenement-houses is herewith submitted.

The most important feature of this law, and one to which almost constant attention is required for its enforcement, is that which provides "that a license shall be procured for the purpose of making or finishing wearing apparel in private houses or rooms by the family dwelling therein." The conditions upon which a license is granted are such that the person holding the same is required to notify this department immediately upon the occurrence of contagious or infectious disease in the building in which they reside ; and upon receipt of such notice the party by whom they are employed is notified to cease sending clothing to be made in the building. As a further precaution, in case the party holding a license neglects to notify, we are informed of the existence of these diseases by the daily reports of the Boston Board of Health, and by having access to the records of these diseases in the city of Cambridge, through the courtesy of the local board of the above city.

There have been several cases of contagious diseases during the year in buildings in which a license had been granted, but fortunately in no case was there any clothing found in the apartment at the time the disease existed. While it is known that contagious disease is liable to occur in all localities, still, the ignorant indifference of some of these home workers to the danger of exposure can only be understood by going among them as we are required to do, and may be best illustrated by quoting one example. A woman, a Polish Jew, had applied for a license to finish trousers at home. When I visited the house it was placarded by the Board of Health. I entered the house and found she was the person affected, having a mild attack of diphtheria. She was taking no precaution against the spreading of the disease, on the contrary, three of her children were in the room with her, one a nursing infant. She was much aggrieved because a license would not be granted to her immediately.

While the number of home workers has materially decreased on account of the enforcement of the license provision of the law, still during the year I have received over five hundred applications, many of which came from houses whose dirty and overcrowded condition made it impossible to grant a license therein.

While it is true that great improvements have been made in the city of Boston by the construction of large tenement or apartment

houses in place of old buildings originally intended for occupancy by one or two families, still, when such large houses are occupied by careless or negligent people with no responsible person in charge, they soon become as bad if not worse than the former. As an illustration of the overcrowded condition of some of these so-called improved buildings, there is one in particular, built on the land formerly used for two small houses, and in this building are located sixteen families, aggregating from sixty to seventy-five persons. With so many people using one set of halls and stairways, making it impossible to keep the same clean, the condition of the building may be easily imagined. There is at least one exception which has come under my observation. This is a cluster of three large brick structures, four stories high, and divided into tenements of two, three and four rooms, and so constructed as to be easily kept clean; there is always a janitor in attendance, and in connection with these buildings there is a bath-house, a library or reading room and a large kindergarten, in which for five cents a day children are well cared for during the absence of the mother while at work.

The majority of the persons now engaged in this home work are women who do so as the only support of themselves and children or to add to the scanty earnings of the father, which do not suffice for their support. In many cases this work is carried on at home in order to defeat the purpose of the law regulating the hours of employment of women in factories or workshops. At home not only were the hours of labor unlimited, but the labor of the whole family could be utilized; and the avarice of this class of help, coupled with the ignorant cupidity of their employers, was only serving to drag them down to lower wages and worse conditions. When this law came into force they may be said to have reached the place where constant employment was necessary to keep from starvation. This class was made up of Italian and Russian women, and many of them may now be found employed in the regular workshops. While these unfortunate conditions serve to reduce the prices paid for garment-making generally, and where a woman is working for the support of her family, making men's cotton shirts and overalls at thirty-five cents per dozen, or women's wrappers at from six to twelve cents apiece, the amount of labor required for so meagre an existence can be easily seen. Most of this particular class of work is carried on in large and well-regulated factories; still, there are always enough small concerns ready to employ all the people obliged to work at home.

The amount of work required in the enforcement of this law may be better understood by a glance at the following table: —

Number of tenements inspected during the year,	798
Number of tenements granted a license,	234
Number of tenements refused a license,	229
Number of licenses extended,	5
Number of licensed tenements October, 1894,	355
Number reinspected this year and licenses reissued,	160
Number reinspected this year and licenses revoked,	170
Total number of licensed tenements October, 1895,	419
Number of visits of reinspection to licensed and unlicensed tenements,	104
Total number of tenement inspections during the year,	902

In addition to the above, it is necessary to visit frequently the tenements where licenses are granted, and also to visit unlicensed premises, in order that the law may not be violated. During the year there have been but two tenement-house workshops in the district, in one of which shirts and overalls were being made and in the other ladies' dress skirts, both of which were vacated so quickly that prosecution was impossible.

I submit a tabulated statement, showing the work accomplished in the inspection of factories and workshops in which clothing is manufactured, and the enforcement of the laws regulating the employment of labor therein.

The law limiting the hours of labor of women and minors is generally well observed in these shops, and in many of them through the efforts of labor organizations the hours of labor have been reduced to nine per day.

It will be observed that the number of children employed in the shops shows an increase over last year, but the law requiring that certificates be kept on file for such children has been rigidly enforced. I found but one child under thirteen years employed, and this during the vacation of the public schools, the employer thinking he could employ without certificates at such times; this child was immediately paid and sent home.

The law in reference to the sanitary conditions in these workshops requires close attention for its proper enforcement, the same causes existing as in former years, namely, the careless habits of the employees; but by frequently visiting these shops I have managed to have them kept in a comparatively clean condition.

Number of tenements visited during the year,	902
Number of workshops inspected during the year,	124
Number of orders issued during the year,	84
Number of compliances,	82
Number of children between thirteen and fourteen years,	2
Number of children between fourteen and sixteen years,	38
Number of females employed,	886
Number of males employed,	1,278

SPECIAL DUTY, JOHN N. PLUNKETT, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
					14 to 16.				
		Males.	Females.	Under 14.					
CHIELSEA.									
S. Solomon,	Coats,	14	8	—	Fair,	Designate water-closet,	Complied. —*		
Miah Cohen,	Coats,	18	19	—	Poor,	Provide additional water-closet; guard shafting; procure certificate.			
BOSTON.									
Morris Nadal,	Coats and trousers,	5	4	—	Fair,	Post time table,	Complied.		
M. Goldstein,	Coats,	3	1	—	Fair,	Post time table,	Complied.		
P. O'Brien,	Coats,	13	5	—	Fair,	Post time table,	Complied.		
T. Attman,	Trousers,	4	7	—	Fair,	Post time notice; designate water-closet.	Complied.		
Robert McCoubley,	Coats and vests,	11	6	—	Fair,	Clean and designate water-closet,	Complied.		
J. Kadish,	Vests,	4	2	—	Fair,	Post time table,	Complied.		
J. Tilburg,	Trousers,	2	3	—	Fair,	Post time table,	Complied.		
J. D. Tornquest,	Coats,	17	5	—	Good,	Post time table,	Complied.		
J. Shapiro,	Coats,	12	4	—	Poor,	Post time table; procure certificates,	Complied.		
S. Feiner,	Coats,	14	8	—	Good,	Post time table; procure certificate for minor.	Complied.		
J. W. McDonald,	Trousers and coats,	27	13	—	Poor,	Post time table,	Complied.		
Samuel Isener,	Coats,	3	3	—	Fair,	Post time table,	Complied.		
Harris Spear,	Coats,	5	—	1	Fair,	Procure certificate for minor,	Complied.		

* Complied in part.

SPECIAL DUTY, JOHN N. PLUNKETT, Inspector — *Continued.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON — Continued.								
Mogolersky & Mandelbaum, .	Trousers, . .	9	8	—	—	Poor, .	Limewash room; designate water-closets; post time table.	Complied.
Morris Sigertofsky, . .	Trousers, . .	14	15	—	—	Fair, .	Post time table,	Complied.
P. Seidler, . .	Coats, . .	6	4	—	—	Fair, .	Post time table,	Complied.
Kopelman Bros., . .	Vests and coats, .	5	2	—	—	Fair, .	Post time table,	Complied.
F. H. Hughes, . .	Trousers, . .	3	7	—	—	Fair, .	Post time table,	Complied.
S. W. Loomis, . .	Trousers, . .	9	16	—	—	Good, .	Post time table,	Complied.
McIntire & Wallace, . .	Coats and vests, .	1	23	—	—	Fair, .	Post time table,	Complied.
H. Levine, . .	Coats, . .	58	32	—	—	Poor, .	Limewash room; procure certificate for minor.	Complied.
B. Slipian, . .	Coats, . .	8	2	—	1	Fair, .	Procure certificate for minor, . .	Complied.
L. Greenburg, . .	Coats, . .	16	9	1	1	Poor, .	Post time table; designate water-closet; procure certificate and discharge minor twelve years old.	—*
John Selesct, . .	Coats, . .	4	1	—	—	Fair, .	Post time table,	Complied.
P. Waxten, . .	Coats, . .	8	1	—	1	Fair, .	Procure certificate for minor, . .	Complied.
Marino & Ruben, . .	Coats, . .	13	7	—	—	Fair, .	Post time table,	Complied.
J. Natinson & Co., . .	Trousers, . .	11	7	—	—	Poor, .	Clean and designate water-closet; procure certificate; guard belt from motor.	Complied.
Matthews Bros., . .	Shirts and overalls, .	8	6	—	1	Poor, .	Post time table; procure certificate,	Moved.

Wasserman & Meranis,	Trousers,	35	21	-	-	Fair,	Designate water-closet,	Completed.
Himan Brenner,	Trousers,	12	10	-	-	Poor,	Keep water-closet clean,	Completed.
Solomon Levine,	Trousers,	13	3	-	-	Poor,	Keep water-closet clean,	Completed.
Harris Schwartz,	Trousers,	8	5	-	1	Fair,	Procure certificate for minor,	Completed.
S. Baker,	Coats,	10	2	-	1	Fair,	Procure certificate for minor,	Completed.
J. Cohen & Co.,	Coats,	16	6	-	1	Fair,	Post time table; procure certificate for minor.	Completed.
Morris Wolfson,	Trousers,	7	5	-	-	Fair,	Post time table,	Moved.
Frank Rosenberg,	Trousers,	10	4	-	-	Poor,	Furnish additional water-closets,	Completed.
A. Bronsky,	Coats,	26	14	-	1	Fair,	Guard shafting; procure certificate for minor.	Completed.
S. Bronsky,	Coats,	18	14	-	-	Fair,	Guard belt from motor,	Completed.
Standard Clothing Co.,	Clothing,	72	18	-	-	Good,	Designate water-closet,	Completed.
Julius Koppell,	Coats,	24	11	-	1	Fair,	Post time table,	Completed.
Bessil & Freidman,	Coats,	6	2	-	1	Poor,	Post time table,	Completed.
I. Falck,	Trousers,	8	8	-	-	Poor,	Clean and keep light in water-closet,	Completed.
Sir Kasden,	Coats,	8	2	-	1	Poor,	Post time table; keep room clean,	Completed.
Rosenberg & Fleischer,	Trousers,	12	9	-	1	Poor,	Clean room and water-closets,	Completed.
Jacob Rosenberg & Co.,	Trousers,	4	7	-	-	Poor,	Post time table,	Completed.
Julius Koppell,	Coats,	13	5	-	-	Poor,	Clean and designate closets,	Moved.
Smith & Zoffell,	Coats,	11	4	-	-	Poor,	Post time table,	Moved.
Goldman & Goldberg,	Trousers,	6	3	-	-	Poor,	Clean and designate closet,	Completed.
H. Guren,	Children's pants,	11	5	-	1	Poor,	Post time table,	Completed.
Frank Cohen,	Trousers,	14	12	-	4	Poor,	Post time table; clean and designate closet.	Completed.
Martin Leftovith,	Coats,	11	7	-	1	Good,	Procure certificate for minor,	Completed.
Henry Janbol,	Trousers,	5	3	-	1	Fair,	Procure certificate,	Completed.
Joseph Rosenberg,	Children's jackets,	43	17	-	2	Fair,	Procure certificate; arrange for water-closet.	Completed.

* Partly complied.

SPECIAL DUTY, JOHN N. PLUNKETT, Inspector — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.			
BOSTON — <i>Concluded.</i>								
Gilbert & Davis,	Coats, . . .	10	3	—	—	Fair, .	Post time table, . . .	Complied.
Isaac Baker,	Vests, . . .	6	4	—	—	Fair, .	Post time table, . . .	Complied.
A. Grossman,	Trousers, . . .	13	7	—	—	Fair, .	Post time table, . . .	Complied.
Koppel Bros.,	Children's pants, .	9	6	—	1	Fair, .	Post time table; procure certificate,	Complied.
A. Cohen, . . .	Children's jackets,	14	6	—	1	Poor, .	Furnish water-closet; procure certificate.	Complied.
H. Kauffman,	Children's jackets,	14	9	—	1	Poor, .	Provide additional water-closet; post time table; procure certificate.	Complied.

REPORT OF INSPECTRESS FANNY B. AMES.

SIR:—During the year just closed I have made 203 inspections, in fourteen towns, covering the employment of 8,038 men, 6,669 women, 391 children between the ages of fourteen and sixteen years and 5 between thirteen and fourteen. In addition I have made 35 visits supplementary to inspection. These visits have also been made in response to complaints of violation of law where women and children are concerned.

I have made a thorough inspection of the mercantile establishments of some of the smaller cities of the Commonwealth, and gladly report that with few exceptions the laws restricting employment of children, furnishing seats to women and providing for proper sanitary conditions are observed. I doubt if any community or country can compare with Massachusetts in the generally favorable conditions of employment or in the intelligence and high moral tone of the employed. The exceptions are individual; and even the body of restrictive legislation known as factory laws cannot prevent the disastrous effects of bad personal qualities. These, rather than industrial conditions, are now responsible for most of the evils which exist: the petty tyrannies, sullen antagonisms, reluctant and slovenly work and undue waste on one side, and the unfair exactions and grudging rewards on the other. And yet a powerful factor in eliminating these undesirable conditions is active inspection and thorough enforcement of the law.

I had the pleasure, at your instigation, of showing several of our factories and workshops where women are employed to Mrs. Hicks of England, who has been much identified with the working women of her own country. Her strong expressions of commendation at the excellent condition of the places visited,—though these were by no means among the best of our factories,—at the small number of children employed compared with similar trades in England, and at the generally good physical condition and evident fine moral tone and refined character of our working women, were most gratifying.

There is much to do to keep the standard abreast with an increasing demand for humane industrial conditions; and, though the violations of the labor laws are exceptional, we must continually exercise vigilance that they be made more and more infrequent.

SPECIAL DUTY,

FANNY B. AMES, *Inspectress.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.	14 to 16.		
ABINGTON.							
M. N. Arnold, . . .	Shoes, . . .	545	125	-	-	Bad, .	Reported to chief, . . .
BOSTON.							
Fenno & Taylor, . . .	Mercantile, . . .	7	6	-	1	Good, .	Furnish seats; get certificate; give women separate closets.
Mary A. McDermott, . . .	Mercantile, . . .	-	2	-	-	Good, .	Furnish seats, . . .
C. A. W. Crosby, . . .	Mercantile, . . .	9	9	-	-	Good, .	Give separate closets, . . .
The Ribbon Store, . . .	Mercantile, . . .	1	18	-	-	Good, .	Furnish seats, . . .
Dennison Paper Co., . . .	Mercantile, . . .	3	17	-	-	_*	Furnish seats, . . .
L. Cahors, . . .	Confectionery, . . .	2	4	-	-	Good, .	Clean shop, . . .
M. H. Levy, . . .	Tailoring, . . .	1	2	-	-	Fair, .	Give women separate closet, . . .
F. W. Imberg, . . .	Bookbinding, . . .	4	4	-	1	Good, .	Procure certificate; furnish separate closet.
W. C. Stahl, . . .	Confectionery, . . .	2	2	-	-	Good, .	Give women separate closet, . . .
H. & G. W. Lord, . . .	Nets and twine, . . .	12	80	-	-	_*	Furnish seats; distinguish closet, . . .
M. Pass, . . .	Wrappers, . . .	2	3	-	-	Fair, .	Clean and designate closet; post time tables.
Empire Shirt Manuf'g Co., . . .	Shirts, . . .	3	2	-	-	Fair, .	Post time tables, . . .
J. F. Whalen & Co., . . .	Engraving and printing.	6	8	-	1	Good, .	Procure school certificate, . . .
Peck Bros., . . .	Printing, . . .	2	4	-	-	Poor, .	Designate closet, . . .
Wilson Bros., . . .	Mercantile, . . .	53	12	-	3	_*	Procure three certificates, . . .

Charles Abrams,	•	Tailoring,	•	22	25	—	1	Fair,	•	Procure certificate,	•	•	•	•	—
J. E. Marshall,	•	Potato chips,	•	7	7	—	—	Good,	•	Designate closets; post time tables,	•	•	•	•	Completed.
I. W. Wheeler,	•	Awings,	•	15	13	—	1	—*	•	Procure certificate,	•	•	•	•	Completed.
R. Lehmann,	•	Awings,	•	2	2	—	—	Good,	•	Separate closet for women,	•	•	•	•	—
John Holman & Co.,	•	Beddings, etc.,	•	13	14	—	—	Poor,	•	Distinguish closet for women; post time schedules	•	•	•	•	Completed.
J. G. Small & Co.,	•	Manufacturing,	•	—	5	—	—	Poor,	•	Clean closet and shop,	•	•	•	•	Completed.
R. H. White & Co.,	•	Annex,	•	12	55	—	14	—*	•	Furnish seats,	•	•	•	•	Completed.
P. F. Bonney & Co.,	•	Manufacturing,	•	1	10	—	—	—*	•	Post time schedules,	•	•	•	•	Completed.
J. Seligman,	•	Mercantile,	•	3	15	—	1	—*	•	Procure certificate,	•	•	•	•	Completed.
J. Seligman,	•	Manufacturing,	•	1	9	—	—	—*	•	Post time schedule,	•	•	•	•	Completed.
Diamond Match Factory,	•	Matches,	•	4	32	—	3	Poor,	•	Procure certificate; guard belt; post time schedules.	•	•	•	•	Completed.
The New Idea,	•	Mercantile,	•	2	18	—	1	Bad,	•	Properly ventilate,	•	•	•	•	Closed.
Boston Steamboat and Hotel Laundry,	•	Laundry,	•	7	15	—	2	Fair,	•	Keep to posted time schedules,	•	•	•	•	—
J. H. Winchell & Co.,	•	Shoes,	•	150	300	—	3	Good,	•	Furnish additional closets for women,	•	•	•	•	—
G. H. Robie,	•	Mercantile,	•	2	18	—	—	Good,	•	Provide separate closets,	•	•	•	•	Completed.
A. A. Tarbell,	•	Mercantile,	•	1	5	—	—	Good,	•	Provide separate closets,	•	•	•	•	—
P. B. Magrane,	•	Mercantile,	•	30	40	1	2	—*	•	Get school certificate; furnish additional seats.	•	•	•	•	Completed.
"Bouquet,"	•	Millinery,	•	—	5	—	—	—*	•	Post time schedules,	•	•	•	•	Completed.
Doty & Mansfield,	•	Mercantile,	•	2	5	—	1	Good,	•	Get school certificate,	•	•	•	•	Completed.
Bon Marché,	•	Millinery,	•	—	6	—	—	Poor,	•	Improve sanitary condition; post time schedules.	•	•	•	•	Completed.

* Excellent.

SPECIAL DUTY, FANNY B. AMES, *Inspector* — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Males.	Females.	Under 14.				14 to 16.
LYNN — <i>Concluded.</i>							
G. F. Anderson, . . .	Mercantile, . . .	7	6	—	Poor, . . .	Clean closet and make accessible, . . .	—
M. L. White, . . .	Millinery, . . .	—	5	—	Good, . . .	Post time schedules, . . .	Complied.
L. A. Baker, . . .	Millinery, . . .	1	18	1	—*	Get school certificate; post time schedules.	Complied.
LOWELL.							
Moir & Bros, . . .	Mercantile, . . .	1	12	—	Good, . . .	Furnish additional seats, . . .	—
Moir & Bros., . . .	Millinery, . . .	—	3	—	Good, . . .	Post time schedules, . . .	—
J. F. Kenney, . . .	Millinery, . . .	—	2	—	Good, . . .	Post time schedules, . . .	—
K. W. Horne, . . .	Millinery, . . .	—	3	—	Good, . . .	Post time schedules, . . .	—
H. M. Lord, . . .	Millinery, . . .	—	3	—	Good, . . .	Post time schedules, . . .	—
R. A. Jordan, . . .	Millinery, . . .	—	36	—	—*	Post time schedules, . . .	—
Head & Shaw, . . .	Millinery, . . .	—	6	—	—*	Post time schedules, . . .	—
Abbie M. Smith, . . .	Millinery, . . .	—	7	—	Good, . . .	Post time schedules, . . .	—
Chris. Holmes, . . .	Mercantile, . . .	1	5	—	Poor, . . .	Repair and designate closet, . . .	—
MARLBOROUGH.							
Rice & Hutchins, . . .	Shoes, . . .	300	150	—	—*	Procure five certificates, . . .	Complied.
S. H. Howe Shoe Co., . . .	Shoes, . . .	275	125	—	Good, . . .	Furnish seats to shoe dressers, . . .	Complied.
Chase, Merritt & Co., . . .	Shoes, . . .	150	50	—	—*	Procure six certificates; furnish seats to women.	—
H. C. Wright, . . .	Mercantile, . . .	6	6	—	Good, . . .	Furnish separate closet for women, . . .	Complied.
Frank & Dustan, . . .	Paper boxes, . . .	21	38	1	—*	Procure two certificates, . . .	Complied.

John O'Connell & Sons, Boynton & Co., . . .	Shoes, . Mercantile, . . .	120 4	50 5	— —	3 —	—* Good, .	Procure one certificate, Furnish seats to women, . . .	Complicated. —
NEWBURYPORT.								
J. W. Frost, . . .	Dressmaking, Mercantile, . . .	—	5	—	—	Good, .	Post time schedules, Procure school certificate, Give women separate closet, Give women separate closet, Post time schedules, . . .	— — — — —
A. F. Lewis, . . .	Mercantile, . . .	4	2	—	1	Good, .		
G. H. Plummer, . . .	Mercantile, . . .	3	6	—	—	—* Good, .		
W. A. Johnson, . . .	Mercantile, . . .	—	7	—	—	Good, .		
M. Wilkin & Co., . . .	Millinery, . . .	—	5	—	—	Good, .		
NORTH BROOKFIELD.								
E. & A. H. Batchelder, . . .	Shoes, . . .	824	304	—	17	Good, .	Procure certificates; give seats to women. Give seats to women, . . .	— —
H. H. Brown & Co., . . .	Shoes, . . .	165	35	—	3	Good, .		
SALEM.								
W. G. Webber & Co., . . .	Mercantile, . . .	24	34	—	4	Good, .	Furnish additional seats, . . .	—
W. G. Webber & Co., . . .	Millinery, . . .	—	4	—	—	Good, .	Post time schedules, . . .	—
Almy, Bigelow & Washburn, J. H. Brown, . . .	Millinery, . . .	—	4	—	—	Good, .	Post time schedules, . . .	—
Briggs & Wilkins, . . .	Millinery, . . .	4	6	—	—	Good, .	Post time schedules, . . .	—
	Mercantile, . . .	—	5	—	—	Good, .	Furnish women separate closets, . . .	—
STONEHAM.								
T. H. Jones, . . .	Shoes, . . .	200	125	—	8	—* Good, .	Procure four certificates, . . . Furnish seats for women, . . .	Complicated. —
TURNER'S FALLS.								
Turner's Falls Paper Co., . . .	Paper, . . .	43	7	—	—	Good, .		

* Excellent.

REPORT OF INSPECTRESS MARY E. HALLEY.

SIR:—As the work assigned me in this department does not materially change from year to year, I have very little that is new to add to my annual report. When the particulars bill went into effect you assigned me the duty of visiting every textile factory, woollen and cotton, in Bristol County. On the 1st of June I assumed that duty. Beginning at Fall River, I inspected seventy-two cotton factories; in New Bedford eighteen factories were visited, eleven at Taunton, three at Attleborough and vicinity and one at Westport, the names of which I have reported to you, as requested. In each of those mills I have examined many different styles of cloth, counting number of picks, number threads to inch in warp, etc., weighing and measuring sometimes several pieces of one particular style, in order to get a fair estimate. With only one exception did I find cloth to exceed the maximum number of yards or pounds given on the board of specifications, although I have had several complaints. While the law is strictly observed in every factory, the specifications are not entirely satisfactory to a portion of the employees, viz., in giving weight of cloth instead of number of yards to cut, a standard number of yards to cut of print cloth being the object desired. Since the law allows the system of payment by weight, all those mills that have adopted that method are to be reported as complying with the law.

At the beginning of evening school you called my attention to the attendance of illiterates. So far I can say that the law relating to compulsory education is very carefully lived up to. The success of this part of the work is greatly assisted by the co-operation of truant officers and superintendents of factories, all cases of deficient attendance being thoroughly investigated.

In conclusion, would say that all the factory laws are rigidly enforced. It is evident that in nothing is the State more deeply interested than in the education and employment of its laboring classes under the most favorable conditions.

In compliance with your order of October 22 I submit the following statement:—

Number of inspections made,	. . . . .	225
Number of orders given,	. . . . .	27
Number of compliances,	. . . . .	24
Number of children between thirteen and fourteen years,	. . . . .	10
Number of children between fourteen and sixteen years,	. . . . .	2,127
Number of females employed,	. . . . .	18,385
Number of males employed,	. . . . .	18,248
Total number employed,	. . . . .	38,760

SPECIAL DUTY,

MARY E. HALLEY, *Inspector.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.				Sanitary Condition.	Orders Given.	Compliances.	
		Males.	Females.	Under 14.	14 to 16.				
FALL RIVER.									
Robeson Mill,	Print cloth,	250	213	—	16	Good,	Laws complied with,	—	
Tecumseh Mill,	Print cloth,	225	213	—	22	Good,	Provide extra closet for women,	Complied.	
Stafford Mill, No. 2,	Print cloth,	165	229	—	22	Good,	Procure two certificates,	Complied.	
Algonquin Printing Co.,	Print works,	85	10	—	2	Good,	Law complied with,	—	
James Marshall Hat Co.,	Hats,	238	212	—	6	Good,	Law complied with,	—	
Sanford Spinning Co.,	Yarn,	168	60	—	14	Good,	Post time notice,	Complied.	
Globe Yarn Mill,	Yarn,	200	100	—	27	Good,	Post time notice,	Complied.	
Belmont Manufacturing Co.,	Twine,	65	55	—	1	Fair,	Close closets inside mill; closets outside; post time notices.	Complied.	
Tecumseh Mill, No. 2,	Prints,	143	187	—	7	Good,	Laws complied with,	—	
Cornell Mill,	Prints,	200	220	—	47	Good,	Laws complied with,	—	
Troy Mills,	Prints,	179	217	—	24	Good,	Verbal order, guard belt in card room,	Complied.	
Granite Mill,	Prints,	290	170	—	19	Good,	Laws complied with,	—	
Marshall's Hat Co.,	Fur hats,	231	269	—	13	Good,	Laws complied with,	—	
Small Bros.,	Twine,	25	2	—	2	Good,	Post time notices,	Complied.	
Granite Mill, No. 2,	Print cloth,	149	198	—	40	Good,	Provide tags on spoolers' and warpers' frames.	—	
Granite Mill, No. 1,	Print cloth,	144	277	1	26	Good,	Provide tags for spoolers' frames,	—	
Maguire & Dillion,	Mercantile,	31	25	—	3	Good,	Provide three school certificates,	Complied.	
Chase Mill,	Prints,	196	260	—	31	Good,	Prevent children cleaning machinery after working hours.	Complied.	

SPECIAL DUTY, MARY E. HALLEY, *Inspector* — *Concluded.*

NAME OF FACTORY OR WORKSHOP.	Goods Manufactured.	NUMBER EMPLOYED.			Sanitary Condition.	Orders Given.	Compliances.
		Under 14.		14 to 16.			
		Males.	Females.				
FALL RIVER — <i>Concluded.</i>							
S. T. Fraprie,	Paper boxes,	7	6	—	Good,	Post time notices,	Complied.
Barnard Mills,	Print cloth,	123	244	35	Good,	Provide tags on spoolers' frames,	Complied.
M. Heywood & Co.,	Braid,	6	14	7	Fair,	Provide three certificates; post time notices; clean closets.	Complied.
Union Mills, Nos. 1, 2 and 3,	Prints,	538	465	74	Good,	Laws complied with,	—
Granite Mills, Nos. 1, 2 and 3,	Print cloth,	740	520	42	Good,	Laws complied with,	—
Osborn Mills, No. 1,	Print cloth,	401	216	22	Good,	Procure certificates,	Complied
Osborn Mills, No. 2,	Print cloth,	162	197	22	Good,	Procure certificates,	Complied.
Pocasset Mills,	Print cloth,	336	377	37	Good,	Laws complied with,	—
Fall River Manufacturing Co.,	Print cloth,	239	109	13	Good,	Laws complied with,	—
Iron Works Mills, Nos. 1, 2 and 3,	Print cloth,	736	930	62	Good,	Post time notices,	Complied.
Slade Mill,	Print cloth,	215	210	33	Good,	Laws complied with,	—
Linen Mill,	Print cloth,	439	530	44	Fair,	Laws complied with,	—
Union Mill,	Print cloth,	538	465	74	Good,	Laws complied with,	—
American Print Works,	Printing cloth,	633	82	27	Good,	Laws complied with,	—
Richard Borden Mills, Nos. 1 and 2,	Prints,	360	398	31	Good,	Laws complied with,	—
Annawan Mill,	Print cloth,	130	80	1	Fair,	Provide separate closet,	Complied.
Shove Mill, No. 1,	Print cloth,	425	275	33	Good,	Laws complied with,	—
Osborn Mill, No. 1,	Print cloth,	284	152	30	Good,	Laws complied with,	—
Osborn Mill, No. 2,	Print cloth,	180	157	19	Good,	Laws complied with,	—
King Philip Mills,	Fancy prints,	600	590	52	Good,	Laws complied with,	—

Weetamoe Mill, .	Print cloth, .	170	270	-	17	-	Laws complied with,	.	.	-
Chase Mill, .	Print cloth, .	222	254	-	20	Good,	Laws complied with,	.	.	-
Laurel Lake Mill,	Print cloth, .	264	146	-	18	Good,	Laws complied with,	.	.	-
Conanicut Mills, .	Print cloth, .	170	85	-	7	Good,	Laws complied with,	.	.	-
Slade Mill, .	Print cloth, .	215	210	-	20	-	Laws complied with,	.	.	-
Narragansett Mill,	Print cloth, .	165	195	-	34	Good,	Laws complied with,	.	.	-
NEW BEDFORD										
Grinnell Mill, .	Fine prints, .	300	445	-	29	Good,	Procure two certificates,	.	.	Complied.
Haskell & Tripp,	Dry goods, .	11	50	-	4	-	Procure three certificates,	.	.	Complied.
TAUNTON.										
L. B. Higgins, .	Dry goods, .	2	5	-	1	Good,	Procure one certificate,	.	.	Complied.
A. B. Cleasby, .	Dry goods, .	2	3	-	-	Good,	Provide separate closet for women on first floor.	.	.	-*
New York Store,	Dry goods, .	4	6	-	-	Good,	Provide separate closet for women,	.	.	-*

* Recent order.

*Report of Elevators Inspected.*DISTRICT No. 1. JAMES C. MURRAY, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Billerica.				
Talbot Mills,	3	Good,	None,	-
Cambridge.				
George G. Page Box Co., .	2	Good,	None,	-
American Rubber Co., . .	3	-*	Provide safety device for two elevators.	Complied.
Irving & Casson,	1	Good,	None,	-
Jensen Bros.,	1	Good,	Guard elevator well on each floor.	Complied.
Riverside Pottery,	1	Poor,	Provide safety device, . . .	Complied.
Somerville Desk Co., . . .	2	Good,	Guard elevator well on each floor.	-
Keeler & Co.,	1	Good,	Guard elevator well on each floor.	Complied.
Hudson.				
F. Brigham & Co.,	2	-†	New cable for small elevator,	Complied.
L. T. Jefts,	1	Fair,	New cable for elevator, . . .	Complied.
Lowell.				
Appleton Co.,	4	Good,	None,	-
Middlesex Co.,	1	Poor,	Provide safety device, . . .	Complied.
Consumers' Brewing Co., .	1	Good,	None,	-
Tremont & Suffolk Mills, .	4	-†	Provide safety device for elevator in No. 1 mill.	Complied.
Lowell Manufacturing Co., .	5	-‡	Procure new ropes for three elevators.	Complied.
Hamilton Manufacturing Co.,	3	-†	Provide safety device for one elevator.	Complied.
North Wilmington.				
G. & E. G. Place,	1	Fair,	New cable for elevator; guard well on third floor.	Complied.
Reading.				
J. M. Cropley,	1	Good,	Provide self-closing gate to elevator well on each.	Complied.
Welch-Brush Co.,	1	Good,	Guard elevator well on second floor.	Complied.
Somerville.				
Williams Table & Lumber Co.,	1	Good,	Guard elevator well on first floor; repair gates on second and third floors.	Complied.
Winchester.				
McKay Metallic Fastening Association.	1	Good,	None,	-
Woburn.				
Beader, Adamson & Co., . .	1	Poor,	Provide safety device, . . .	Complied.
E. Rollins, Jr.,	1	Good,	Guard elevator well, . . .	Complied.
James Skinner & Co., . . .	2	Fair,	New cable for two elevators, .	Complied.
W. P. Fox & Son,	1	Good,	Guard elevator well on second floor.	Complied.
Wayland.				
Bent & Stevens,	1	Fair,	New cable for elevator, . . .	Complied.
Westford.				
Abbott & Co.,	3	-†	New cable for one elevator; guard well in storehouse.	Complied.
Wakefield.				
Smith & Anthony Co., . . .	-	-	-	-

* Two poor.

† One poor.

‡ Two good.

*Report of Elevators Inspected — Continued.*DISTRICT No. 4. MALCOLM SILLARS, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Chelsea.				
White, Holeman & Co., . . .	2	Good,	None,	-
J. W. Stickney & Co., . . .	1	Good,	None,	-
Austin & Graves,	1	Good,	None,	-
Magee Furnace Co.,	5	Good,	None,	-
Revere Shoe Co.,	1	Good,	None,	-
Forbes Lithograph Co., . . .	1	Good,	None,	-
Revere Rubber Co.,	1	Good,	None,	-
American Fire Hose Manufacturing Co.,	1	Good,	None,	-
Thos. Strahn Co.,	1	Good,	None,	-
Low Art Tile Co.,	1	Good,	None,	-
A. S. Rogers Shoe Co.,	1	Good,	None,	-
Atwood & McManus,	1	Poor,	Repair safety,	-
Mt. Washington Spring Co., .	1	Good,	None,	-
Sweet Car Wheel Co.,	1	Good,	None,	-
Revere.				
D. & L. Slade Co.,	1	Good,	None,	-

*Report of Elevators Inspected.*DISTRICT No. 5. JOHN E. FOULDS, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Athol.				
L. B. Morse & Son,	1	Good,	None,	-
Hill & Greene,	1	Good,	None,	-
Ashburnham.				
Boston Chair Manuf'g Co., . .	3	Fair,	Repair safety device on two, .	Complied.
W. F. Whitney,	2	Good,	None,	-
Wm. B. Pierce,	1	Bad,	Put on new safety device, . .	Complied.
I. E. Platt,	1	Good,	None,	-
Clinton.				
Clinton Wire Cloth Co., . . .	4	Good,	None,	-
Witheral Shoe Co.,	1	Good,	None,	-
Hardwick.				
Geo. H. Gilbert Manuf'g Co., .	2	Good,	None,	-
Geo. H. Wheelwright Paper Co., .	3	Good,	None,	-
Fitchburg.				
Wm. A. Garno,	1	Good,	Guard elevator well,	Complied.
Nockege Manufacturing Co., .	1	Good,	None,	-
Fitchburg Manufacturing Co., .	1	Good,	None,	-
Fitchburg Worsted Co., . . .	2	Good,	Repair safety device,	Complied.
Parkhill Manufacturing Co., .	2	Good,	Repair safety device,	-
Winchendon.				
D. W. Bennett,	1	Bad,	New safety device,	Complied.

*Report of Elevators Inspected — Continued.*DISTRICT No. 5. LEWIS F. F. ABBOTT, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Athol.				
Hill & Greene,	1	Good,	None,	-
Munroe, Elkins & Smalridge,	1	Good,	None,	-
L. Morse & Son,	1	Good,	None,	-
A. F. Tyler,	1	Good,	Provide new cable,	Complied.
L. S. Starrett Co.,	2	Good,	None,	-
Goddard & Manning,	1	Good,	None,	-
Auburn.				
Stonville Worsted Co.,	1	Good,	None,	-
Ashburnham.				
O. Whitney & Co.,	1	Good,	None,	-
I. E. Platts,	1	Good,	None,	-
W. F. Whitney,	2	Good,	None,	-
Blackstone.				
Lawrence Felt Co.,	1	Good,	None,	-
Brookfield.				
Tyler & Moulton Shoe Co.,	1	Good,	None,	-
George H. Burt,	1	Good,	Provide new cable,	Complied.
Parmenter Manufacturing Co.,	1	Good,	None,	-
C. H. Moulton,	2	Good,	Provide one new cable,	Complied.
Clinton.				
Lancaster Mills,	5	Good,	None,	-
Bigelow Carpet Co.,	3	Good,	None,	-
Charlton.				
Cadybrook Mill,	1	Good,	None,	-
Springbrook Mill,	1	Good,	None,	-
Dudley.				
Stevens Linen Works,	2	Good,	None,	-
E. S. Stevens,	1	Good,	None,	-
Fitchburg.				
Parkhill Mill, C,	1	Good,	None,	-
Grant Yarn Mill,	1	Good,	None,	-
E. F. Belden,	1	Good,	None,	-
Fitchburg Manufacturing Co.,	1	Good,	None,	-
Nockeege Mill,	1	Good,	None,	-
Fitchburg Worsted Co.,	1	Good,	None,	-
Orswell Mill,	2	Good,	None,	-
E. M. Dickinson & Co.,	1	Good,	None,	-
Grafton.				
Saundersville Cotton Mill,	1	Good,	None,	-
Grafton Flax Mill,	1	Good,	None,	-
J. S. Nelson & Son Shoe Co.,	2	Poor,	Provide one new cable; repair gates to both.	Complied.
Gardner.				
S. K. Pierce & Son,	2	Good,	None,	-
Central Oil Gas Stove Co.,	1	Good,	None,	-
Nichols Bros.,	2	Good,	None,	-
John A. Dunn,	1	Good,	None,	-
P. Derby & Son,	1	Good,	None,	-
S. Bent & Bros.,	1	Good,	None,	-
Conant, Ball & Co.,	1	Good,	None,	-
L. B. Ramsdell,	1	Good,	None,	-
A. & H. C. Knowlton,	1	Good,	None,	-
Heywood Bros. & Co.,	7	Good,	None,	-
Holden.				
Eagle Lake Woollen Co.,	1	Good,	None,	-
Jefferson Manufacturing Co.,	1	Good,	None,	-

Report of Elevators Inspected—Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Hardwick.				
Geo. H. Gilbert Manuf'g Co.,	2	Good,	None,	-
Leicester.				
L. S. Watson Manuf'g Co., .	1	Good,	None,	-
Central Factory,	1	Good,	None,	-
American Card Clothing Co.,	1	Good,	None,	-
C. W. Warren & Son, . . .	1	Good,	None,	-
Rochdale Mill,	1	Good,	None,	-
Leominster.				
Merriam, Hall & Co., . . .	1	Good,	None,	-
Whitney Paper Box Co., . .	1	Good,	None,	-
Leominster Shirt Co., . . .	2	Good,	None,	-
Wachusett Shirt Co., . . .	1	Good,	None,	-
Leominster Worsted Co., . .	1	Good,	None,	-
F. A. Whitney Carriage Co.,	1	Good,	None,	-
Wachusett Laundry,	1	Good,	None,	-
W. S. Reed Toy Co.,	1	Good,	None,	-
G. A. Gane Shirt Co., . . .	1	Good,	None,	-
Jewett Piano Co.,	1	Good,	None,	-
Whitney Reed Chair Co., . .	1	Good,	None,	-
Millbury.				
Cordis Mills,	2	Good,	None,	-
Lapham Woollen Mill, . . .	1	Good,	None,	-
North Brookfield.				
E. & A. H. Batcheller Co., .	3	Good,	None,	-
H. H. Brown & Co.,	1	Good,	None,	-
Northbridge.				
Linwood Mill,	1	Good,	None,	-
Paul Whitin Manuf'g Co., . .	2	Good,	None,	-
Oxford.				
A. L. Joslin & Co.,	2	Good,	None,	-
Spencer.				
William Barr & Son,	1	Good,	None,	-
J. E. Bacon & Co.,	1	Good,	None,	-
I. Prouty & Co., Incorporated,	5	Good,	None,	-
E. Jones & Co.,	1	Good,	None,	-
Sutton.				
Manchaug Manufacturing Co.,	2	Good,	None,	-
Templeton.				
J. M. Greenwood & Co., . .	1	Good,	None,	-
T. T. Greenwood & Sons, . .	1	Good,	None,	-
Bourn, Hadley & Co., . . .	1	Good,	None,	-
Smith, Day & Co.,	1	Good,	None,	-
D. L. Thompson & Son, . . .	1	Good,	None,	-
Waite Chair Co.,	1	Good,	None,	-
Upton.				
William Knowlton & Son, . .	1	Good,	None,	-
Uxbridge.				
Calumet Woollen Co.,	1	Good,	None,	-
Hecla Mill,	1	Good,	None,	-
Warren.				
Fanney Jane Mill,	1	Good,	None,	-
Warren Cotton Mills,	4	Good,	None,	-
Knowles Pump Works,	2	Good,	None,	-

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Westborough.				
Gould & Walker,	1	Good,	Provide new cable,	Complied.
Hunt Manufacturing Co., .	1	Good,	None,	-
West Boylston.				
West Boylston Manuf'g Co.,	1	Good,	Set up guides,	Complied.
L. M. Harris Manuf'g Co., .	1	Good,	None,	-
West Brookfield.				
Olmstead-Quabog Corset Co.,	1	Good,	None,	-
Winchendon.				
Nelson Mill,	1	Good,	None,	-
Glen Allen Mill,	1	Good,	None,	-
Mason & Parker,	1	Good,	Provide automatic hatch or gate.	Complied.
N. E. Baby Carriage Co., .	2	Good,	None,	-
C. W. Day & Sons,	1	Good,	None,	-
M. E. Convers,	1	Good,	Provide automatic gates or hatch.	Complied.
W. P. Clark,	1	Good,	None,	-
Webster.				
Slater Woollen Co., . . .	3	Good,	None,	-
Slater Cotton Mill, . . .	2	Good,	None,	-
Worcester.				
Mason-Risch Organ Manfy., .	1	Good,	None,	-
Hobbs Manufacturing Co., .	1	Good,	None,	-
Logan, Swift & Brigham, .	2	Good,	None,	-
Whitcomb Envelope Co., .	3	Good,	None,	-
The Wire Goods Co., . . .	1	Good,	None,	-
Crompton Loom Works, . .	3	Good,	None,	-
Howard Bros.,	1	Good,	None,	-
Waverley Shoe Co., . . .	1	Good,	None,	-
A. C. Hildreth,	1	Good,	None,	-
Glasco Thread Co., . . .	2	Good,	None,	-
Spiers Manufacturing Co., .	1	Good,	None,	-
Worcester Carpet Co., . .	3	Good,	Provide one new cable, . . .	Complied.
M. J. Whittall,	3	Good,	None,	-
The Boston S. C. Food Co., .	1	Good,	None,	-
The Worcester Corset Co., .	1	Good,	None,	-
The Worcester Woollen Mill,	1	Good,	None,	-
Walker & Brown,	1	Good,	None,	-
E. H. Stark & Co., . . .	1	Good,	None,	-
Charles F. Kent,	1	Good,	None,	-
D. Cummings & Co., . . .	1	Good,	None,	-
The Day Building,	1	Good,	Provide door on side, . . .	In process.
C. S. Goddard & Son, . . .	1	Good,	None,	-
Wright & Colton,	2	Good,	None,	-
Reed & Prince,	2	Good,	None,	-
Hammond Reed Co., . . .	1	Good,	None,	-
Hutchins Narrow Fabric, .	1	Good,	None,	-

*Report of Elevators Inspected—Continued.*DISTRICT No. 6. JOHN F. TIERNEY, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Fall River.				
King Philip Mills,	5	Good,	None,	-
Border City Manuf'g Co., . .	4	Good,	None,	-
Jesse Eddy Manuf'g Co., . .	2	Good,	None,	-
Stevens Manufacturing Co., .	1	Good,	None,	-
Fall River Bobbin and Shut- tle Co.	2	Good,	None,	-
Narragansett Mills,	3	Good,	None,	-
Sagamore Manuf'g Co., . . .	2	Good,	None,	-
Globe Yarn Mills,	6	Good,	None,	-
Fall River Bleachery,	4	Good,	None,	-
Sanford Spinning Co.,	1	Good,	None,	-
Conanicut Mills,	1	Good,	None,	-
Kerr Thread Mills,	3	Good,	None,	-
Fall River Laundry,	1	Fair,	Repair safety device, . . .	Complied.
Massasoit Manufacturing Co., .	1	Good,	None,	-
Chase Mills,	3	Good,	None,	-
Shove Mills,	2	Good,	None,	-
Cornel Mills,	2	Good,	None,	-
Osborn Mills,	4	Good,	None,	-
Robeson Mills,	2	Good,	None,	-
Fall River Iron Works Co., . .	5	Good,	None,	-
Davol Mills,	1	Good,	None,	-
American Printing Co., . . .	5	Good,	Put new ropes on elevator, .	Complied.
Seaconnet Mills,	3	Good,	None,	-
Hargraves Mill, No. 1,	2	Good,	None,	-
Hargraves Mill, No. 2,	2	Good,	None,	-
Stafford Mills,	4	Good,	Repair safety device, . . .	Complied.
Wampanoag Mills,	4	Good,	None,	-
Barnby Manufacturing Co., . .	1	Good,	None,	-
Barnard Manufacturing Co., . .	1	Good,	None,	-
Merchants Mills,	5	Fair,	New ropes on elevator, and repair safety device. . . .	Complied.
Fall River Manufactory, . . .	1	Good,	None,	-
Granite Mills,	5	Good,	None,	-
Crystal Spring Bleaching Co., .	1	Good,	None,	-
Pocasset Manufacturing Co., .	3	Good,	None,	-
American Linen Co.,	4	Good,	None,	-
Union Cotton Manuf'g Co., . .	4	Good,	Repair safety device on ele- vator.	Complied.
Troy Cotton and Wool Manu- facturing Co.	2	Good,	None,	-
Flint Mills,	2	Good,	Repair hatchways,	Complied.
Richard Borden Manuf'g Co., .	2	Good,	Repair platform on elevator, .	Complied.
Mechanics Mills,	2	Good,	Repair platform on elevator, .	Complied.
Weetamoe Mills,	2	Good,	None,	-
Durfee Mills,	6	Good,	None,	-
Tecumseh Mills,	2	Good,	Repair safety device, . . .	Complied.
Slade Mills,	2	Good,	Repair safety device, . . .	Complied.
Anawan Mills,	1	Good,	None,	-
Laurel Lake Mills,	1	Good,	None,	-
Metacomet Manuf'g Co., . . .	1	Good,	None,	-
New Bedford.				
Acushnett Mills,	4	Good,	Repair safety device, . . .	Complied.
Potomaska Mills,	3	Good,	None,	-
Wamsutta Mills,	11	Good,	Repair safety device, . . .	Complied.
Bristol Mills,	1	Good,	None,	-
City Manufacturing Co.,	3	Good,	None,	-
Grinnell Mills,	2	Good,	None,	-
Hathaway, Soule & Harring- ton.	1	Good,	None,	-
Hathaway Manufacturing Co., .	3	Good,	None,	-
New Bedford Manuf'g Co., . .	3	Good,	Repair safety device, . . .	Complied.
Pairpoint Manufacturing Co., .	5	Good,	None,	-
"Evening Standard,"	1	Good,	None,	-
Pierce Manufacturing Co., . . .	2	Good,	None,	-
Rotch Spinning Co.,	4	Good,	Repair eye bolt on elevator, .	Complied.
Howland Mills,	2	Good,	Repair safety device, . . .	Complied.
Columbia Mills,	2	Good,	None,	-
Bennett Mills,	2	Good,	None,	-

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
New Bedford — Con.				
D. A. Snell Bakery, . . .	2	Fair,	Repair safety device on large one; put in new elevator.	Complied.
Fairpoint Manufacturing Co. Glass Works.	2	Good,	None,	-
National Cordage Co., . . .	2	Good,	None,	-
Morse Twist Drill Co., . . .	2	Good,	None,	-
J. C. Rhodes & Co., . . .	2	Good,	None,	-
Westport.				
Westport Factory, . . .	2	Good,	None,	-
Sandwich.				
Cape Cod Decorating Co., .	2	Good,	None,	-
Fairhaven.				
Atlas Tack Co., . . .	2	Good,	None,	-
Thatcher Bros., . . .	1	Good,	None,	-
Taunton.				
Anthony & Cushman, . . .	2	Fair,	Put new frame on elevator, .	Complied.
Elizabeth Pool Mills, . . .	2	Good,	None,	-
Cohannet Mills, . . .	5	Good,	None,	-
Eagle Mills, . . .	1	Good,	New gates on elevator, . .	Complied.
Canoe River Mills, . . .	1	Good,	None,	-
Morton Bros.' Steam Laundry,	1	Good,	None,	-
Nemasket Mills, . . .	1	Good,	None,	-
Westville Mill, . . .	1	Good,	None,	-
Oakland Mills, . . .	1	Good,	None,	-
Whittenton Manuf'g Co., . .	7	Good,	Put on automatic gates, . .	Complied.
A. Field & Son, . . .	4	Good,	None,	-
Taunton Tack Co., . . .	2	Good,	None,	-
Mason Machine Shop, . . .	6	Good,	None,	-
Reed & Barton, . . .	3	Good,	None,	-
Attleborough Falls.				
Gold Medal Braid Co., . . .	1	Good,	None,	-
South Attleborough.				
Wm. Coupe & Co., . . .	1	Good,	Springs on doors, . . .	Complied.
Attleborough.				
Dodgeville Mills, . . .	2	Good,	None,	-
Hebron Mills, . . .	1	Good,	None,	-
Norton.				
Norton Mills Co., . . .	1	Good,	None,	-
Mansfield.				
Burpee & Rumsey, . . .	1	Good,	None,	-
Conroy & Co., . . .	1	Good,	Put new rope on elevator, .	Complied.

*Report of Elevators Inspected.*DISTRICT No. 7. JOHN L. KNIGHT, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Agawam.				
Worthy Paper Co., . . .	1	Good,	None,	-

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Amherst.				
The Hills Co., . . .	1	Good,	Self-closing gates to the opening to the elevator well; safety device to the elevator car on hand elevator; repair the gates to the elevator openings to the elevator in main building.	Complied.
A. R. Cushman, . . .	2	Good,	None,	-
Chester.				
Hampden Emery and Corundum Co.	1	Fair,	None,	-
Chicopee.				
Dwight Manufacturing Co., .	4	Good,	Provide self-closing hatches or gates to the picker-room elevator.	Complied.
Overman Wheel Co., . . .	4	Good,	None,	-
The J. Stevens Arms and Tool Co.	1	Good,	None,	-
Lamb Manufacturing Co., .	3	Good,	Provide self-closing hatches to new elevator.	Complied.
Ames Sword Co., . . .	2	Fair,	Repair gates to elevator, . .	Complied.
Chicopee Manufacturing Co.,	8	Good,	None,	-
Taylor & Bromley, . . .	1	Good,	None,	-
Cummington.				
A. V. Stevens, . . .	1	-*	None,	-
Easthampton.				
Easthampton Spinning Co., .	2	Good,	None,	-
Norwood Knitting Co., . .	1	-*	Repair hatches to elevator openings.	Complied.
Easthampton Rubber Thread Co.	1	Good,	None,	-
Nashawannet Manuf'g Co., .	2	Fair,	None,	-
Williston & Knight, ivory department.	1	Good,	None,	-
Williston & Knight Co., .	1	Good,	None,	-
Glendale Elastic Fabric Co.,	-†	Good,	None,	-
Holyoke.				
Merrick Thread Co., . . .	6	Good,	None,	-
Norman Paper Co., . . .	2	Good,	None,	-
Crocker Manufacturing Co., .	4	Good,	None,	-
Newton Paper Co., . . .	1	Good,	None,	-
Nonotuck Paper Co., . . .	4	Good,	None,	-
Whitcomb's building, . . .	2	Good,	None,	-
Keating Wheel Co., . . .	1	Good,	None,	-
Riverside Paper Co., . . .	1	Good,	None,	-
National Blank Book Co., .	2	-*	Provide new cable for elevator in east tower.	Complied.
Parsons Paper Co., No. 2, .	2	Fair,	Provide new cable to the elevator known as the finishing-room elevator.	Complied.
Hadley Thread Co., . . .	8	Good,	None,	-
Holyoke Envelope Co., . . .	2	Good,	None,	-
Holyoke Paper Co., . . .	2	Good,	None,	-
Holyoke Water Power Co., .	2	Fair,	New cable to elevator in main building and east tower.	Complied.
Valley Paper Co., . . .	2	Fair,	Repair elliptical spring on stock elevator.	Complied.
Whiting Paper Co., . . .	8	Good,	None,	-
Connor Bros., . . .	3	Fair,	Protect elevator openings, .	Complied.
Henry Seymour Cutlery Co.,	1	Good,	None,	-
Massachusetts Paper Co., .	3	Good,	None,	-
Massachusetts Screw Co., .	1	Good,	None,	-
Chadwick Plush Co., . . .	1	Good,	None,	-

* Not good.

† One hoisting.

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Holyoke — Con.				
Dean Steam Pump, . . .	2	Good,	None,	-
D. Mackintosh & Sons Co., . .	4	Good,	None,	-
Wauregan Paper Co., . . .	2	Good,	None,	-
Germania Mills,	1	Good,	None,	-
Lyman Mills,	7	Good,	None,	-
Conn. River Paper Co., . . .	2	Fair,	Provide new cable for rag-room elevator.	-
Geo. R. Dickinson Paper Co.,	2	Fair,	Provide new cable for the stock-room elevator.	Complied.
Huntington.				
Chester Paper Co.,	2	Good,	None,	-
Ludlow.				
Ludlow Manufacturing Co., . .	10	Good,	None,	-
Monson.				
S. F. Cushman,	2	Good,	None,	-
R. M. & T Reynolds,	2	Good,	Keep elevator gates closed when not in use.	Complied.
R. M. Reynolds,	1	Good,	None,	-
D. W. Ellis & Son,	1	Good,	None,	-
Northampton.				
Nonotuck Silk Co.,	1	Good,	None,	-
Northampton Paper Box Co.,	1	Good,	None,	-
Central Oil Gas Stove Co., . .	4	Good,	None,	-
Smith Car Baking Co., . . .	1	Good,	None,	-
Florence Manufacturing Co.,	2	Good,	None,	-
Belding Bros.,	3	Good,	None,	-
Mount Tom Sulphite Co., . .	1	Good,	None,	-
J. N. Leonard Manuf'g Co., . .	1	Good,	None,	-
Palmer.				
Boston Duck Co.,	4	Good,	None,	-
Thorndike Mills,	4	Good,	Provide new cable for elevator in lower mill.	Complied.
Palmer Mills of the Otis Co.,	5	Good,	None,	-
Roger Osgood Hat Co., . . .	1	Good,	None,	-
Russell.				
Chapin & Gould,	2	Good,	None,	-
Fairfield Paper Co.,	3	-*	Provide new wire cable for elevator.	Complied.
South Hadley Falls.				
Glasgow Manufacturing Co.,	1	Good,	None,	-
Springfield.				
Geo. W. Tapley, eight build- ings.	8	Good,	None,	-
Barney & Berry Skate Co., . .	2	Good,	None,	-
Geo. A. Shastery & Co., . . .	2	Good,	None,	-
Smith & Wesson,	4	Good,	None,	-
Wright's Estate,	6	Good,	None,	-
Bay State Corset Co.,	1	Fair,	Provide new wire cable, . .	Complied.
Springfield Steam Power Co.,	7	Good,	None,	-
Cheney-Bigelow Wire Works,	2	Good,	None,	-
Hay and Storage Co.,	1	Fair,	Repair gates to elevator open- ings.	Complied.
L. L. Fitts,	1	Fair,	Repair gates to openings, .	Complied.

* Not good.

Report of Elevators Inspected—Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Springfield—Con.				
P. P. Kellogg & Co., . . .	1	Fair,	Provide new cable to elevator in Corset Company's building; protect elevator openings in new building.	Complied.
Wilder & Puffer, . . .	1	Fair,	Repair gates to elevator openings.	Complied.
W. S. Marsh & Son, . . .	1	Fair,	Repair gates to elevator openings.	Complied.
Dickinson Hard Rubber Co., . . .	1	Good,	None,	-
Morgan Envelope Co., . . .	3	Good,	None,	-
Cashin Card and Paper Co., . . .	1	Fair,	Repair gates to elevator, . . .	Complied.
Homestead Building, . . .	1	Good,	None,	-
Agawam Manufacturing Co., . . .	2	Good,	None,	-
E. Stebbins Manuf'g Co., . . .	1	Good,	None,	-
Highland Brewing Co., . . .	1	Good,	None,	-
Joseph Whitcomb & Co., . . .	1	Good,	None,	-
A. H. Goetting,	1	Good,	None,	-
Birnie Paper Co.,	1	Good,	None,	-
A. N. Mayo & Co.,	1	Fair,	Repair gates to elevator openings.	Complied.
Bemis Car Box Co.,	1	Good,	None,	-
Metallic Drawing Roll Co., . . .	1	Good,	None,	-
Springfield Printing and Binding Co., . . .	3	Good,	None,	-
The Indian Orchard Co., . . .	2	Good,	None,	-
Newell Bros. Manuf'g Co., . . .	3	Good,	None,	-
Clark W. Bryan & Co., . . .	1	Good,	None,	-
Kibbe Bros.,	2	Good,	None,	-
E. S. Stacy,	1	Good,	None,	-
Warwick Cycling Manufacturing Co., . . .	2	Good,	None,	-
National Needle Co.,	1	Good,	None,	-
Springfield Brewing Co., . . .	2	Good,	None,	-
Ware.				
Chas. A. Stevens,	1	Good,	None,	-
Westfield.				
William Warren Thread Co., . . .	1	Fair,	Guard openings to the elevator well in basement.	Complied.
American Casket Hardware Co., . . .	1	Good,	None,	-
Crane Bros. Paper Mill,	2	Good,	None,	-
Pomery & Van Dusen,	1	Good,	None,	-
American Whip Co.,	1	Good,	None,	-
The H. B. Smith Co.,	1	Good,	None,	-
Springdale Paper Co.,	1	Good,	None,	-
Town & Fuller Co.,	1	Good,	None,	-
West Springfield.				
Southworth Co.,	3	Good,	None,	-
Springfield Glazed Paper Co., . . .	1	Good,	None,	-
Agawam Paper Co.,	3	Good,	None,	-
Wilbraham.				
Collins Manufacturing Co., . . .	4	Good,	None,	-
Williamsburg.				
Hayden Manufacturing Co., . . .	1	Good,	None,	-

*Report of Elevators Inspected—Continued.*DISTRICT NO. 8. EDWARD B. PUTNAM, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Abington.				
Cobb & Thompson, . . .	1	Good,	None,	-
W. S. O'Brien,	1	Fair,	Repair safety,	Complied.
William E. Lyons, . . .	1	Good,	None,	-
L. A. Crossett,	1	Good,	None,	-
E. L. Sprague & Co., . .	1	Good,	None,	-
Avon.				
J. B. Lewis Co.,	1	Fair,	Repair safety,	-
Brockton.				
Packard & Field,	1	Good,	None,	-
Brockton Co-operative Boot and Shoe Co.	1	Good,	None,	-
J. M. O'Donnell & Co., . .	1	Good,	None,	-
Woodward & Wright, . . .	1	Fair,	Repair safety,	-
George E. Keith,	2	Good,	None,	-
Myron F. Thomas,	1	Good,	None,	-
Thompson Bros.,	1	Fair,	Repair safety,	Complied.
Churchill & Alden,	2	Good,	None,	-
R. B. Grover & Co., . . .	2	Good,	None,	-
Preston B. Keith,	2	Good,	None,	-
Whitman & Keith,	1	Good,	None,	-
Monarch Rubber Co., . . .	1	Good,	None,	-
M. A. Packard,	1	Good,	None,	-
Holbrook.				
Thomas White & Co., . . .	1	Good,	None,	-
J. B. Billings,	1	Good,	None,	-
Plymouth.				
Edes Manufacturing Co., . .	1	Fair,	Apply safety device, . .	Complied.
Russell Mills,	1	Bad,	Make elevator safe, . .	Complied.
Plymouth Cordage Co., . .	1	Good,	None,	-
Atlas Tack Co.,	2	Good,	None,	-
Randolph.				
Bradley, Hagney & Leonard,	1	Good,	None,	-
Charles Doughty,	1	Good,	None,	-
Rockland.				
French, Shimer & Umer, . .	1	Good,	None,	-
Hall, Gallagher & Foulke, .	1	Good,	None,	-
John Spence & Co.,	1	Good,	None,	-
Rice & Hutchins,	1	Good,	None,	-
E. T. Wright & Co.,	1	Fair,	Repair safety,	Complied.
Kelleher & Jones,	1	Good,	None,	-
F. E. Nesmith & Co., . . .	1	Good,	None,	-
Whitman.				
Smith & Stoughton,	1	Good,	None,	-
Atlas Tack Corporation, . .	2	Good,	None,	-
Perkins, Jones & Co., . . .	1	Good,	None,	-
Commonwealth Shoe and Leather Co.	3	Fair,	Repair safety on two large elevators.	Complied.
T. A. Whicher,	1	Good,	None,	-
D. B. Gurney,	1	Good,	None,	-

*Report of Elevators Inspected—Continued.*DISTRICT No. 8. JOHN J. SHEEHAN, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Beverly.				
Winslow & Rogers, . . .	1	Poor,	New hoisting rope; adjust hoisting machinery.	Complied.
Beverly Building Association,	6	—*	New hoisting rope for elevator No. 1, and new iron plate for cross bar of elevator No. 2.	Complied.
J. L. Porter,	1	Good,	None,	—
Myron Woodbury,	1	Good,	None,	—
George H. Allen,	1	Good,	None,	—
Solon Lovett,	1	Good,	None,	—
Frank Woodberry,	1	Good,	None,	—
Chas. H. Creesy,	1	Good,	None,	—
J. A. Wallis & Co.,	1	Good,	None,	—
George A. Woodbury, 2d, . .	1	Good,	None,	—
J. H. Baker,	1	Good,	None,	—
Baker Bros.,	1	Good,	None,	—
W. A. Lefavour,	1	Good,	None,	—
W. A. Foster,	1	Good,	None,	—
Danvers.				
Danvers Building Association,	3	—†	New hoisting rope for elevator No. 1.	Complied.
Eaton & Sears,	1	Good,	None,	—
S. W. Spaulding,	1	Good,	None,	—
W. H. Burns,	1	Good,	None,	—
J. L. Jellerson,	1	Good,	None,	—
Clapp & Tapley,	1	Good,	None,	—
George Plumer & Co., . . .	1	Good,	Guard opening on third floor,	Complied.
Essex.				
Essex Shoe Co.,	1	Poor,	Repair safety device on car; adjust hoisting machinery.	Complied.
Gloucester.				
Russia Cement Co.,	2	Good,	None,	—
Cape Ann Shoe Co.,	1	Good,	None,	—
Net and Twine Co.,	1	Good,	None,	—
Merchant Box Co.,	1	Good,	None,	—
Improved Process Glue Co, .	1	Poor,	Repair safety on elevator car; guard openings on each floor.	Complied.
Haverhill.				
Elijah Fox,	1	Poor,	Repair safety device on car; adjust hoisting machinery.	Complied.
Ipswich.				
Ipswich Mills Co.,	4	Good,	None,	—
Millett & Woodbury,	1	Good,	None,	—
Lynn.				
Walter S. Dickson,	1	Good,	None,	—
Russell & Co.,	1	Good,	None,	—
Southworth & Campbell, . .	1	Good,	None,	—
Parker Bros.,	1	Good,	None,	—
Potter & Blanchard,	1	Good,	None,	—
Edw. E. Elder,	3	Good,	None,	—
Mower Bros.,	2	Good,	New hoisting rope for elevator No. 1.	Complied.
Duffy & Oulton,	1	Good,	New hoisting rope; repair self closing hatches.	Complied.
George E. Barnard,	6	Good,	None,	—
Bennett & Moulton,	1	Good,	None,	—
George W. Harnden,	1	Good,	None,	—

* Four good, two poor.

† Two good, one poor.

Report of Elevators Inspected—Continued.

NAME OF BUILDING.	No. of Elevators.	Condition.	Orders Given.	Compliances.
Lynn—Con.				
G. K. & A. H. Pevear, . . .	3	Good,	None,	—
Silsbee, Baker & Co., . . .	1	Good,	None,	—
B. P. Magrane,	1	Poor,	Repair safety device on car; guard openings on every floor.	Complied.
Spinney & Caldwell,	2	—*	Repair safety device on car No. 2.	Complied.
Pevear & Co.,	2	Poor,	New hoisting ropes for both; repair safety devices on both; guard openings on each floor of both wells.	Complied.
H. A. Pevear & Sons, . . .	1	Good,	Guard openings to well on third floor.	Complied.
V. K. & A. H. Jones, . . .	3	Good,	None,	—
S. N. Breed & Co.,	13	—†	Repair safety devices on elevator cars Nos. 11 and 12.	Complied.
E. H. Ashcroft,	1	Good,	Repair self-closing hatches, .	Complied.
Nathan Breed,	1	Good,	None,	—
J. B. Renton,	2	Good,	None,	—
Chas. Buffum,	1	Good,	None,	—
J. Otis Marshall,	2	—‡	New hoisting rope; new safety device for car; adjust machinery, No. 2.	Complied.
Jos. G. Brown,	1	Good,	New hoisting rope,	Complied.
Frank Breed,	2	Good,	None,	—
Littlefield & Plummer, . . .	6	Good,	None,	—
George H. Allen,	1	Good,	Guard openings of well, . .	Complied.
Walter M. Libby,	2	Good,	None,	—
Dearborn Bros.,	1	Good,	None,	—
A. B. Hoffman,	1	Good,	None,	—
F. E. Abbott,	1	Good,	None,	—
J. C. Bennett,	3	Good,	None,	—
James Phelan,	1	Good,	None,	—
C. Otis Marshall,	1	Good,	None,	—
G. Webster King,	2	Good,	None,	—
Central Investment Co., . . .	2	Good,	None,	—
Charles E. Harwood,	1	Good,	None,	—
Lucius Beebe & Sons, . . .	2	Good,	None,	—
Thomson-Houston Electric Co.,	7	Good,	None,	—
W. H. Hutchinson,	1	Good,	None,	—
Marblehead.				
Building Association, . . .	2	Good,	None,	—
W. H. Boynton,	1	Good,	None,	—
Peabody.				
George J. Winchester, . . .	1	Good,	None,	—
J. E. & J. H. Osborne, . . .	2	Good,	None,	—
L. B. Southwick & Co., . . .	1	Good,	None,	—
Franklin Osborne Co., . . .	2	Good,	Guard elevator well of elevator No. 1.	Complied.
Standard Thermometer Co., .	1	Good,	New hoisting rope,	Complied.
C. W. Osborne,	1	Good,	Guard elevator well, . . .	Complied.
John A. Lord, Jr.,	2	—*	Repair safety device; adjust hoisting machinery on elevator No. 2.	Complied.
R. S. D. Symonds,	1	Good,	None,	—
Geo. P. & G. H. Osborne, . .	1	Good,	New hoisting rope; guard openings to well.	Complied.
L. & G. H. Poor,	2	Good,	None,	—
R. G. Nelson,	1	Good,	None,	—
Danvers Bleachery Co., . . .	1	Good,	None,	—
Rockport.				
Crowell Manufacturing Co., .	1	Good,	Repair self closing hatches, .	Complied.

* One good, one poor.

† Eleven good, two poor.

‡ One good, one bad.

Report of Elevators Inspected—Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Salem.				
I. P. Harris & Co., . . .	1	Good,	Guard opening, first floor, .	Complied.
Chas. S. Fuller & Co., . . .	1	Good,	None,	-
Geo. L. Newcomb,	1	Good,	Guard openings on each floor,	Complied.
Salem Building Association, .	2	Good,	None,	-
Atlantic Glue Co.,	1	Good,	None,	-
J. A. Dane & Co.,	1	Good,	None,	-
Devlin Bros.,	1	Good,	None,	-
Warren Page & Co.,	2	Good,	Guard openings of elevator No. 2.	Complied.
Zena Goodell,	1	Good,	None,	-
Hamilton & Balcomb, . . .	3	Good,	New platform for elevator No. 3.	Complied.
B. J. Mulligan,	2	Good,	Guard openings of well No. 2,	Complied.
Chas. Harrington,	1	Good,	None,	-
F. Tuttle & Co.,	1	Good,	None,	-
George F. Putnam,	1	Good,	None,	-
Naumkeag Steam Cotton Co.,	10	Good,	None,	-

*Report of Elevators Inspected.*DISTRICT No. 9. EDWARD B. PUTNAM, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Amesbury.				
Biddle & Smart Co., . . .	1	Bad,	New cables; repair safety, .	Complied.
Merrimac Hat Co.,	1	Good,	None,	-
Currier, Cameron & Co., . .	1	Good,	None,	-
Bradford.				
J. H. Winchell & Co., . . .	1	Fair,	Repair safety,	Complied.
M. A. Howe & Co.,	1	Fair,	Repair safety,	Complied.
Island Park Co.,	1	Good,	None,	-
Groveland.				
Groveland Mills,	2	Good,	None,	-
Haverhill.				
W. B. Thom,	1	Good,	None,	-
Chick Bros.,	1	Fair,	Repair safety,	Complied.
John W. Russ,	1	Good,	None,	-
G. H. Tilton,	1	Good,	None,	-
W. W. Spaulding,	1	Fair,	Repair safety,	Complied.
John Owen,	1	Good,	None,	-
Spaulding & Swett,	1	Good,	None,	-
J. H. Connor,	1	Good,	None,	-
Chandler & Burnham,	1	Good,	None,	-
Field-Thayer Manuf'g Co., . .	2	Good,	None,	-
Thos. S. Ruddock & Son, . . .	1	Fair,	Replace plate,	Complied.
A. Currier & Son,	1	Good,	None,	-
E. W. B. Taylor,	1	Good,	None,	-
J. H. Winchell & Co.,	2	Good,	None,	-
C. A. Ellis & Co.,	1	Good,	None,	-
Chas. H. Hayes,	1	Good,	None,	-
E. W. Gardiner,	1	Bad,	Secure hoisting gear; repair safety.	Complied.
Byron Noyes Co.,	1	Good,	None,	-
Estate Woodbury Noyes, . . .	1	Fair,	Repair safety,	Complied.
Perley Weeks,	1	Good,	None,	-
Russ Bros.,	1	Good,	None,	-
Searle & Webster,	1	Good,	None,	-
C. K. Fox,	1	Good,	None,	-

Report of Elevators Inspected — Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pli- ances.
Haverhill — Con.				
Carleton & Dow,	1	Good,	None,	-
H. B. George & Co.,	1	Good,	None,	-
J. H. Osgood,	1	Good,	None,	-
O. S. Currier,	1	Good,	None,	-
J. A. Durgin & Son,	1	Fair,	Repair safety,	Complied.
Chesley & Rugg,	1	Fair,	Repair safety,	Complied.
H. B. Goodrich & Co., . . .	1	Good,	None,	-
Wilbur H. Davis,	1	Good,	None,	-
P. N. Wadleigh,	1	Good,	None,	-
E. W. Bullock & Co.,	1	Good,	Repair automatic gates, . .	Complied.
C. E. Greenman,	1	Good,	None,	-
L. A. Finney,	1	Fair,	Repair safety,	Complied.
G. W. Gilbert & Co.,	1	Fair,	Repair automatic gates, . .	Complied.
Lennox & Briggs,	2	Good,	None,	-
Lambert & Crowell,	1	Good,	None,	-
Morse Bros.,	1	Good,	None,	-
F. S. & H. Gage,	1	Fair,	Repair safety,	Complied.
George C. How,	1	Good,	None,	-
Moody & Hicks,	1	Bad,	Repair safety; provide and ap- ply new hoisting cable.	Complied.
C. P. Bullen,	1	Fair,	Repair automatic gates, . .	Complied.
Newburyport.				
Burley, Stevens & Co., . . .	1	Good,	None,	-
Bay State Cordage Co., . . .	1	Good,	None,	-
Wilder & Clark Shoe Co., . .	1	Good,	None,	-
Peabody Mills,	2	Fair,	Repair safety in No. 1 mill, .	Complied.

*Report of Elevators Inspected.*DISTRICT No. 10. JAMES R. HOWES, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pli- ances.
Adams.				
Berkshire Cotton Co.,	6	Fair,	Repair automatic hatch, . .	Complied.
L. L. Brown Paper Co., . . .	4	Good,	None,	-
W. C. Plunkett & Sons,	3	Good,	None,	-
Buckland.				
Lamson-Goodnow Cutlery Co.	5	Good,	None,	-
J. R. Foster,	1	Fair,	Guard openings,	Complied.
Conway.				
Tucker & Cook Manuf'g Co., .	1	Good,	None,	-
Dalton.				
Z. & W. M. Crane,	4	Good,	None,	-
Crane & Co.,	6	Good,	None,	-
Byron Weston Paper Co., . . .	8	Fair,	Two new cables,	Complied.
Erving.				
Miller's Falls Manuf'g Co., . .	3	Good,	None,	-

Report of Elevators Inspected—Continued.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Greenfield.				
Merriam & Tilden, . . .	1	Fair,	Repair safety device, . . .	Complied.
A. D. Porter & Son, . . .	1	Good,	None,	-
Nichols Bros.,	1	Good,	None,	-
Goodell Bros.,	1	Good,	None,	-
F. A. Rugg Manuf'g Co., .	1	Good,	None,	-
Baxter & Noyes,	1	Good,	None,	-
A. F. Towle & Son Manufact- uring Co.,	2	Good,	None,	-
Whitcomb Hardware Co., .	1	Good,	None,	-
Lee.				
Smith Paper Co.,	6	Good,	None,	-
Eaton, May & Robbins, . .	1	Good,	None,	-
Hulburt Paper Co., . . .	4	Fair,	Repair automatic gates, . .	Complied.
Eaton & Dikman,	2	Good,	None,	-
Benton Bros.,	2	Good,	None,	-
George K. Bird & Bro., . .	1	Good,	None,	-
Montague.				
Montague Paper Co., . . .	8	—*	Provide new safety device, .	Complied.
Keith Paper Co.,	6	—†	Provide new safety device, .	Complied.
Russell Manufacturing Co.,	4	Good,	None,	-
Turner's Falls Paper Co., .	2	Good,	None,	-
Turner's Falls Cotton Co.,	1	Good,	None,	-
North Adams.				
Wilkinson & Bliss,	1	Good,	None,	-
Barber Leather Co., . . .	1	Fair,	Guard openings,	Complied.
Arnold Print Works, . . .	8	Good,	-	-
Greylock Manufacturing Co.,	1	Bad,	New safety device,	Complied.
North Adams Manuf'g Co.,	1	Good,	None,	-
M. L. Millard Shoe Co., . .	1	Good,	None,	-
W. G. Cady, Ashland Street,	1	Good,	None,	-
W. G. Cady, Holden Street,	1	Good,	None,	-
Eclipse Mill,	1	Good,	None,	-
C. T. Sampson Manuf'g Co.,	1	Fair,	New cable,	Complied.
James Hunter Machine Co.,	1	Good,	None,	-
Johnson Manufacturing Co.,	2	Good,	None,	-
Windsor Print Co.,	1	Bad,	New safety device,	—†
Windsor Print Co.,	6	Good,	None,	-
Pittsfield.				
Pittsfield Manufacturing Co.,	2	Good,	None,	-
Hulburt Stationery Co., . .	1	Good,	None,	-
Sprague, Brenner & Co., . .	1	Good,	None,	-
Gimlich & White,	1	Good,	None,	-
Pontoosac Woollen Co., . .	1	Good,	None,	-
Orange.				
Home Sewing Machine Co., .	6	Good,	None,	-
J. B. Reynolds,	2	Good,	None,	-
Chase Turbine Wheel Co., .	1	Good,	None,	-
Wendell.				
Frick Piano Case Co., . . .	1	Good,	None,	-
Williamstown.				
Greylock Inn,	1	Good,	None,	-
Boston Finishing Co., . . .	1	Good,	None,	-
Williamstown Manuf'g Co.,	1	Good,	None,	-

* Six good, two bad.

† Four good, two bad.

‡ Constructing new elevator.

*Report of Elevators Inspected — Continued.*DISTRICT NO. 11. EDWARD B. PUTNAM, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Lawrence.				
Wright Manufacturing Co., .	1	Good,	None,	-
Dustin Machine Co., . . .	1	Good,	None,	-
Munroe Felt and Paper Co., .	2	Good,	None,	-
J. H. Bingham,	1	Good,	None,	-
Lawrence Duck Co.,	5	Good,	None,	-
Briggs & Allyn Manuf'g Co., .	2	Good,	None,	-
American Card Clothing Co., .	1	Good,	None,	-
Robert Carruthers,	1	Good,	Protect entrances,	Compl'd.
Merrimac Paper Co.,	3	Good,	None,	-
Prospect Worsted Mill, . . .	1	Good,	None,	-
Arlington Mills,	17	Good,	None,	-
Everett Mills,	7	Fair,	Repair safety on 2 elevators, .	Compl'd.
Pemberton Mill,	7	Good,	None,	-
Methuen.				
Methuen Co.,	4	Good,	None,	-
Knitted Fabrics Co.,	1	Good,	None,	-
U. S. Tubular Bell Co., . . .	1	Good,	None,	-
Arlington Cotton Mill, . . .	6	Good,	None,	-

*Report of Elevators Inspected.*DISTRICT NO. 11. FRANK C. WASLEY, *Inspector.*

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Lowell.				
J. C. Coram,	1	Good,	None,	-
John Jaques,	1	Good,	None,	-
White Bros.,	4	Good,	None,	-
C. I. Hood,	2	Good,	None,	-
Middlesex Co., Mill No. 1, . .	2	Good,	None,	-
Middlesex Co., Mill No. 2, . .	2	Good,	None,	-
Middlesex Co., Mill No. 3, . .	1	Good,	None,	-
Massachusetts Co., Mill No. 1, .	3	Good,	None,	-
Massachusetts Co., Mill No. 2, .	3	Good,	None,	-
Massachusetts Co., Mill No. 3, .	3	Good,	None,	-
Massachusetts Co., Mill No. 4, .	3	Good,	None,	-
Massachusetts Co., Mill No. 5, .	3	Good,	None,	-
Massachusetts Co., Mill No. 6, .	2	Good,	None,	-
Lowell Manufacturing Co., . .	5	Good,	None,	-
Appleton Manufacturing Co., .	2	Good,	None,	-
Mill No. 1.				
Appleton Manufacturing Co., .	1	Good,	None,	-
Mill No. 2.				
Appleton Manufacturing Co., .	2	Good,	None,	-
Mill No. 3.				
Kitson Co.,	1	Good,	None,	-
Lowell Machine Shop,	6	Good,	None,	-
R. W. Kendall,	1	Good,	None,	-
Hamilton Co., Mill No. 1, . . .	2	Good,	None,	-
Hamilton Co., Mill No. 2, . . .	2	Good,	None,	-
Hamilton Co., Mill No. 3, . . .	2	Good,	None,	-
Hamilton Co., Mill No. 4, . . .	2	Good,	None,	-
Hamilton Co., Mill No. 5, . . .	2	Good,	None,	-
Hamilton Co., Mill No. 6, . . .	1	Poor,	New safety device,	Compl'd.
Tremont and Suffolk Mills, .	2	Good,	None,	-
No. 9.				
Tremont and Suffolk Mills, .	2	Good,	None,	-
No. 8.				

Report of Elevators Inspected—Concluded.

NAME OF BUILDING.	No. of Elevators.	Con- dition.	Orders Given.	Com- pliances.
Lowell—Con.				
Tremont and Suffolk Mills, No. 7.	2	Good,	None,	-
Tremont and Suffolk Mills, No. 6.	2	Good,	None,	-
Lawrence.				
W. A. Russell Mill, No. 1, .	2	Good,	None,	-
W. A. Russell Mill, No. 2, .	2	Good,	None,	-
W. A. Russell Mill, No. 3, .	1	Good,	None,	-
John E. Dustin,	1	Good,	None,	-
Washington Mill, No. 1, .	2	Good,	None,	-
Washington Mill, No. 2, .	2	Good,	None,	-
Washington Mill, No. 3, .	2	Good,	None,	-
Washington Mill, No. 4, .	1	Fair,	New safety device,	Complied.
A. N. & C. S. Mayo,	3	Good,	None,	-
Andover.				
Tyer Rubber Co.,	1	Good,	None,	-
North Andover.				
M. T. Stevens,	2	Good,	None,	-
Westford.				
Abbot & Co.,	3	Good,	None,	-

BOILER INSPECTION DEPARTMENT.

REPORTS OF INSPECTORS.

BOILER INSPECTION DEPARTMENT.

REPORT OF INSPECTOR HAWLEY.

District No. 1.

SIR:—In my reports of previous years mention was made of the dangerous condition of many boilers in factories, hotels and school-houses. The enactment of a law by the last Legislature, providing means whereby, when these boilers were found, they should be either not used or else put in safe condition, has had an excellent effect in reducing the number of these dangerous boilers, both by direct order of the inspector and indirectly. One effect of the law has been to compel many of the boiler owners, who never had provided any proper inspection of their boilers, to put the boilers in safe condition before the appearance of the State inspector; and in other cases a very large number have applied to the regular boiler inspection companies for inspection and insurance. In very many of these cases these companies upon inspecting the boilers have refused to insure the boilers as safe, and in other cases have first required that the boilers be run at a much lower pressure. These instances are given as indicating that the law itself has accomplished a large amount of good, and brought about the use of safer boilers without any active intervention on the part of this department. Another excellent result is seen in the behavior of certain dealers in second-hand boilers, who have made a practice of selling a boiler, no matter what its condition, whether safe or not, as instances in my previous reports have shown. This practice has been largely checked, though not altogether, but will be as soon as all these parties can be reached. I observe, however, that several parties who have recently sought to purchase second-hand boilers have been informed that many of the old boilers shown them could not now be sold, as the State inspector would be sure to condemn them. Some difficulty has been experienced in locating all the boilers not regularly inspected, and much time has been spent in this work, the parties in the majority of cases being ignorant of the law, and not reporting the location of their boilers. In no instance, however, has the party refused to so report when his attention was called to the matter,

and, although there are doubtless many boilers still unreported, I believe that a large majority of them are now reported for inspection.

I have found some misapprehension existing as to the object of the boiler inspection law. As I understand the matter, it is not the purpose of the State to provide by the law anything savoring of a monopoly of boiler inspection, but merely to establish some supervision over boilers, and to provide the means, when a boiler is found without proper inspection or with external defects that indicate the probability of dangerous defects internally, that the inspector shall then have the power to make a thorough inspection, and, if the boiler is found defective or dangerous, to order proper repairs that will make it safe, or the disuse of the boiler. Many of the boilers reported for inspection and not under the care of regular boiler inspection companies are yet regularly looked over by competent private inspectors. When I am satisfied that boilers have been properly inspected by a competent private inspector, and external evidences indicate safety and no apparent danger, taking into account the age, usage and pressure at which the boiler is worked, it is the intention to inspect those boilers externally, when deeming that to be sufficient. No inspection is sure unless it is both external and internal; but where the State inspector is satisfied that the boilers have received such a proper inspection from competent parties, I can see no reason for putting the owner to the expense of shutting down for the inspector to go over work where no reasonable doubt of safety exists. In all cases, however, where any doubt exists, either as to the inspection by the private inspector or the safety of the boiler at the pressure carried, an internal and external inspection will be made.

I have experienced no opposition whatever in the enforcement of this law. Whenever repairs have been ordered made upon the boilers, the purpose and object of the repairs have been satisfactorily explained to the owners, and the changes made as ordered without dissatisfaction, the justice of the orders being admitted. In some instances boilers have been condemned and promptly removed. Several of these instances were of boilers that I had previously inspected and recommended removal, but which the owners would not do until compelled to. The law now gives this authority, and the owners have promptly removed the boilers as ordered, and, upon looking them over after removal, the defects appear more strongly, and the wonder was why they did not explode.

Many instances could be cited of boilers found in dangerous condition, but these are detailed in the regular reports. One

point I desire to call attention to is the generally neglected condition of boilers in many of the schools and smaller hotels and apartments. These are often left for years with almost no inspection, and attendants ignorant and careless, who left the boiler for the last consideration. In schools safety valves were found stuck, and the janitor, though working about the boiler for years, never knew what the safety valve was, or what it was for, or ever gave it attention. Boilers were found with their connections filled with soot, the accumulation of years, and never disturbed. An effort will be made to make thorough inspections of all these boilers at an early date, even though it must incommode some of the schools, and before another winter all of these boilers will be overhauled and safe repairs ordered.

Regarding the examination of engineers, no important difficulty has arisen that will not adjust itself when the law is better understood and its method of enforcement known. The law divides the engineers into three classes, and provides also for a fireman's license. The principal element of danger in a steam plant is the boiler. It follows, therefore, that all applicants for any class must be safe to entrust with the boiler. So far as actual safety is concerned, the third-class engineer must be as rigidly examined upon the safety of the boiler as the first-class man, and the fireman must also be as strongly examined. This being the fact, the difficulty arose as to how the various engineers could be classified, and it could only be answered by requiring all to be safe persons to handle a boiler, but dividing the classes upon the knowledge and experience a man possessed of boilers and engines outside of this routine work and the questions of safety. Another place upon which the distinction could be drawn was on the engine, grading upon a man's knowledge and experience with various engines. A third-class man must have a certain knowledge of the boiler, but understand something about the engine. A large number of those who applied knew that if the throttle valve was opened the engine would run, and if it pounded very hard, driving the key might lessen the pound, but beyond this they knew nothing. If the eccentric slipped, they had to shut down until some one came to help them. They knew that steam led in a pipe to the cylinder, but how it got into and out of the cylinder they had not the slightest conception or had ever given thought to find out. If running a plant, these men were given a special license for that plant when safe on the boiler, and every third-class man was required to know a little about his valve gear, and how to set the slide valve. They were really no better than firemen, except that they had been accustomed to acting alone, and had actually run engines.

The second class was designated by the law to include all engineers between fifty and one hundred and fifty horse-power of boilers. These men were expected to know rather more than the other class about the action of the engine, to know more definitely about keying-up, something about keeping an engine in line and levelled, something about the care of shafting and piping, and also how to set the valves of any automatic cut-off engine they had had experience with, and, in addition, to be able to adjust the governor in connection with the cut-off, so that the engine would not dangerously race. Many of these men were but a repetition of the others, except that their plants were over fifty horse-power, but they had little or no knowledge beyond the routine work they had been doing for years, and many of them had to be tried several times, answering that they would do certain things about the boiler in case of emergency that could not but result in disaster. When assured they were safe upon the plant they were running, but with no general knowledge beyond that plant, they were given a special license for that plant.

The first-class license was stated in the law to be unlimited in horse-power. This was divided into two sub-classes, unlimited as to power but limited in one case to high-pressure engines, and the other including condensing engines. This was made necessary because many city engineers were familiar with simple engines, but had no knowledge, experience or understanding of the dangers in the handling of large condensing engines. A clear understanding was required from this class as to the proper setting of the engine valves, a clear understanding as to troubles with pumps and in getting and supplying water, a more definite knowledge of belting and shafting, and such knowledge or evidence of experience that would lead to the conclusion that the applicant could take any plant and after looking it over understand its danger points and intelligently handle it. Much stress was laid on the understanding of the engine governor. The many fatal accidents from bursting fly wheels, due almost wholly to defective governors, was the object of requiring a definite understanding upon this matter. Many of the applicants for first-class licenses who were not satisfactory upon this point claimed that they could explain it better with the governor before them, and that the governor upon their engine was all right. This might have been true, and yet the engineer not understand the matter; but to test the matter I visited these engine rooms, and found in a number of instances that the governors were so misadjusted in connections with the valves that had any accident happened to the governor belt or the main belt nothing would have prevented the engine going to

pieces, usually with fatal results. Some of the engineers would not admit the fact, when I pointed out that the governors were not properly set; and it was only by threat that I would demand of their employer that the governor be fixed that the engineers consented to look into the matter, and then later admitted it was a matter they had never had called to their attention, and knew nothing about. The number found of men of long experience as engineers who have no conception of the proper office of the governor in preventing engines racing so as to burst their fly wheels is surprising. Some engines cannot be conveniently set to prevent this, but a large majority are; and every first-class engineer ought to be able to tell, when he takes an engine to run, whether this safety element is so adjusted as to be safe, or is so misadjusted as to be unsafe. The absence of this knowledge, however, did not debar a man from obtaining a first-class license if his general examination was good.

The method of examining best adapted to all engineers is not an easy matter to determine upon. Many men prefer written examination, as giving them time to think out their answers to the best advantage. Another class prefers oral examination; but I find that oral examination away from the engine plant is not a very satisfactory method, and so far an examination upon the plant appears to be the easiest for most engineers, though it can never be so impartial to all, since the time necessary to find a man and examine him when he is engrossed by other duties makes it necessary to make the examination shorter, and frequently does not put the man at the best. Allowances are, however, made for this, and usually it takes but a short time to find the really first-class man, the greater time being consumed on the man who is doubtful between this and the second class. In some instances men have applied for a first-class license who actually knew less than a third-class man, and knew nothing beyond the routine running of their plant, and nothing about what is inside their engine. When safe on the boiler, these men were given a special license, and some of them had been running engines this way for many years. In no case was a license refused a man unless he was actually dangerous about a boiler, either from ignorance, intoxication or unreliability.

The fireman's license was divided into two classes, one being to provide for new-comers in the business. These were granted a license to operate a boiler under supervision of engineer or boss fireman, whenever they knew how to tell the height of water in the boiler, the importance of the safety valve and a few simple emergency questions, which could be readily learned in the week

that the law allows an unlicensed man to work as a fireman. This portion of the law I believe a good one. I am strongly in favor of the licensing of firemen. Very many boiler explosions are due to the ignorance of the man in the fire room. In many plants the engineer is not in the fire room for hours, and in a large number of plants is never there, having nothing to do with the boilers.

The large amount of clerical labor that it is necessary to perform in caring for the applications received has hindered the work of examination and inspection, and, unless some relief is afforded in this direction, fully one-third to one-half of the time must be spent in clerical work that could otherwise be devoted to the work of inspection. This at times is quite a serious problem, and if some scheme could be devised to assist in this work a much greater amount of inspection and examination would be obtained. Following is a detailed statement and summary:—

Summary of Examinations.

CLASS.	Applications Received.	Applicants Examined.	Licenses Granted.	Licenses Refused.
First,	1,122	109	48	—
Second,	1,211	72	37	2
Third,	1,298	59	54	2
Special,	1,062	25	82	8
Firemen,	2,907	162	172	16
Hoisting,	408	60	66	—
Total,	8,008	487	459	28*

* Refused for intoxication, 5.

Summary of Inspections.

Boilers inspected,	56
Boilers ordered repaired,	42
Boilers condemned,	7
Defects found,	165
Dangerous defects found,	78

Boiler Inspection Report.

DISTRICT No. 1.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Arlington.					
C. J. Raymond & Co.,	Show cases,	4	1	Reset water column; pipe blow-off; new fusible plug; remove scale accumulation.	Complied.
Boston.					
Roundy & Hobbs,	Police headquarters,	3	2	Retube boiler; new blow-off pipe; repair setting,	Complied.
Bowker, Torrey & Co.,	Marble works,	3	1	Remove sediment; two additional braces; fusible plug,	Complied.
Church of the Advent,	Church,	1	1	Fusible plug,	Complied.
L. C. Simmons,	Hotel,	—	—	None,	—
Hotel Reynolds,	Hotel,	1	—	None,	—
City of Boston,	Capen school,	5	1	New safety valve, twelve pounds pressure,	Complied.
Hotel Reynolds,	Hotel,	—	—	None,	—
J. J. O'Brien & Co.,	Hoisting,	1	1	Fusible plug,	—
Chas. A. Phelps,	Store,	1	1	Safety valve overloaded; new spring,	Complied.
L. J. McClosky & Co.,	Varnishes,	1	—	None,	—
J. Rennison,	Furniture,	11	2	Repair setting; fusible plug; reduce pressure to forty pounds,	Complied.
Wm. Austin,	Palace theatre,	6	6	Boiler condemned,	—

* New boiler provided.

Boiler Inspection Report — Continued.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Cambridge.					
Coleman Bros.,	Wood yard,	2	2	New fire box; new tubes; patch bottom of shell,	-
City of Cambridge,	City hall,	-	-	None,	-
City of Cambridge,	Police station 2,	4	1	Check valve; replace safety valves,	Complied.
City of Cambridge,	Police station 2,	3	1	Check valve; steam gauge; relocate safety valve,	Complied.
City of Cambridge,	Latin school,	1	1	Check valve,	Complied.
City of Cambridge,	High school,	-	-	None,	-
City of Cambridge,	Ward 1 police station,	2	1	Pressure gauge,	Complied.
City of Cambridge,	Ward 1 police station,	3	1	Safety valve stuck; repair,	Complied.
City of Cambridge,	Washington school,	-	-	None,	-
City of Cambridge,	Shepard school,	3	1	Repair safety valve,	Complied.
City of Cambridge,	Fire engine house,	4	3	New tubes; patch over fire; fusible plug; recommended new boiler,	Complied.
City of Cambridge,	Engine 5,	1	1	Fusible plug,	Complied.
Lowell.					
County of Middlesex,	County jail,	5	3	New boiler,	Complied.
Lynn.					
G. A. Crossman & Co.,	Shoe shop,	4	2	Oil extractor; fusible plug; repair steam gauge,	Complied.
Sawyer, Chase & Co.,	Carriage manufacturer,	6	3	Boiler condemned,	-

Chas. B. Tebbetts,	Shoe shop,	4	2	Hand holes cut; repair setting; relocate safety valve (could not be lifted); repair water columns; new blow-off pipe.	Complied.
P. P. Sherry,	Shoe shop,	-	-	None,	-
P. P. Sherry,	Shoe shop,	1	1	Safety valve,	-
Malden.					
S. W. Gould & Bros.,	Herb mill,	3	2	Fusible plug; reduce scale accumulation; oil extractor,	Complied.
Melrose.					
C. B. & E. H. Goss,	Moulding mill,	5	2	Fusible plug; reset boiler; drips for main piping; remove scale,	Complied.
Jonathan Barrett,	Manufacturing purposes,	5	3	Boiler condemned,	-
Jonathan Barrett,	Manufacturing purposes,	4	2	Cut hand hole; fusible plug; try cocks; replace glass; re-expand four leaky tubes.	Complied.
Natick.					
Driscoll Manufacturing Co.,	Shoes,	2	-	None,	-
Salem.					
N. P. Gifford,	Moulding mill,	11	4	Boiler condemned,	-
N. P. Gifford,	Moulding mill,	7	4	New connection to water glass; new blow-off; clean boiler; repair setting; fusible plug; reduce pressure to fifty pounds; oil extractor.	Complied.
N. P. Gifford,	Moulding mill,	3	2	Clean boiler; fusible plug; extract oil; reduce pressure to seventy pounds.	-
Waltham.					
City of Waltham,	North grammar school,	5	3	Boiler condemned,	Complied.
City of Waltham,	High school,	3	1	Repair setting; new returns,	Complied.
City of Waltham,	South grammar school,	1	-	None,	-
City of Waltham,	South grammar school,	1	1	Fusible plug,	Complied.

Boiler Inspection Report — Concluded.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Waltham — Concluded.					
City of Waltham,	Banks school,	2	1	Safety valve inoperative; repair,	Complied.
City of Waltham,	Newhall school,	2	1	Check valve,	Complied.
City of Waltham,	Plympton school,	4	2	Check valve; repair setting; fusible plug; overloaded safety valve; automatic damper repaired.	Complied.
City of Waltham,	Bemis school,	7	2	New return; inside setting; repair water column; fusible plug,	Complied.
City of Waltham,	Hill school,	2	1	Repair setting; larger safety valve,	Complied.
City of Waltham,	Hose house,	3	1	Boiler condemned,	Complied.
City of Waltham,	Fire station 1,	1	-	Repair water column,	Complied.
City of Waltham,	Alms-house,	1	1	Safety valve stuck; repair,	Complied.
City of Waltham,	Hose house 4,	3	1	Check valve; gauge cocks; fusible plug,	Complied.
City of Waltham,	Central fire station,	4	1	Fusible plug; new feed pipe,	Complied.
City of Waltham,	Police station,	1	1	Check valve,	Complied.
Winchester.					
A. E. Whitney,	Machine shop,	4	3	Fusible plug; repair setting; blow-off from bottom of boiler; new feed pipe.	Complied.
A. E. Whitney,	Machine shop,	1	-	None,	-

Examination Report.

DISTRICT No. 1.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Jos. Hazlett, . . .	Cambridge, .	Fireman, .	Special, .	-
W. N. H. Mallory, . .	Cambridge, .	Fireman, .	Janitor, .	-
Geo. W. Buzzell, . .	Cambridge, .	Fireman, .	Special, .	-
Hugh A. McGoldrick, .	Boston, . .	Fireman, .	-	Refused.
Patrick Sliney, . . .	South Boston, .	Fireman, .	Fireman, .	-
Samuel W. Ludwig, . .	Somerville, .	Fireman, .	Fireman, .	-
Patrick J. Foley, . . .	Somerville, .	2d class, .	Fireman, .	Limited.
Chas. A. Legg, . . .	Cambridge, .	1st class, .	1st class, .	-
Arthur E. Jackman, . .	Peabody, . .	2d class, .	-	Refused.
Edw. B. Dale, . . .	Cambridgeport, .	2d class, .	2d class, .	-
Geo. L. Machon, . . .	Boston, . .	2d class, .	2d class, .	-
Chas. Smith, . . .	Boston, . .	2d class, .	Fireman, .	-
John S. Leamer, . . .	East Cambridge, .	1st class, .	Special, .	-
J. W. Harris, . . .	Boston, . .	2d class, .	Special, .	-
John Herickson, . . .	Boston, . .	Fireman, .	Fireman, .	Limited.
Thos. H. Moran, . . .	Cambridgeport, .	3d class, .	Fireman, .	Limited.
Geo. H. Piper, . . .	Waltham, . .	1st class, .	1st class, .	-
Patrick Melley, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.
William Cullen, . . .	Somerville, .	Fireman, .	Fireman, .	-
John Ross, . . .	Watertown, .	3d class, .	3d class, .	-
Thos. Casey, . . .	East Boston, .	Fireman, .	Fireman, .	Limited.
Patrick Hurley, . . .	South Boston, .	Fireman, .	Fireman, .	Limited.
Horace P. Berry, . . .	Waltham, . .	1st class, .	1st class, .	-
I. M. Hanson, . . .	Billerica, . .	1st class, .	1st class, .	-
L. L. Spaulding, . . .	Boston, . .	3d class, .	3d class, .	-
Michael Donnelly, . . .	Boston, . .	Fireman, .	Fireman, .	-
Thos. Shay, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.
Michael Cox, . . .	South Boston, .	Fireman, .	Fireman, .	Limited.
Martin Ingraham, . . .	Dorchester, .	Fireman, .	Fireman, .	-
Michael Murphy, . . .	South Boston, .	Fireman, .	Fireman, .	-
Michael Cooney, . . .	East Cambridge, .	Fireman, .	Fireman, .	-
John Evans, . . .	Boston, . .	2d class, .	2d class, .	-
Cornelius Reardon, . .	Malden, . .	2d class, .	Fireman, .	-
H. Zwicker, . . .	Boston, . .	Hoisting, .	Hoisting, .	-
Jas. Bushey, . . .	Boston, . .	Hoisting, .	Hoisting, .	-
B. F. Monaghan, . . .	Boston, . .	Hoisting, .	Hoisting, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Geo. E Pike, . . .	Newton, . . .	Hoisting, .	Hoisting, .	-
John Crispo, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Gilbert Buchey, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
L. J. Collins, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Edward Lanagan, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Geo. W. Sanford, . . .	Jamaica Plain, .	Hoisting, .	Hoisting, .	-
C. P. Shipley, . . .	Mattapan, . . .	3d class, .	3d class, .	-
Harrison Sawyer, . . .	East Boston, .	3d class, .	3d class, .	-
Robt. Bagley, . . .	Cambridge, .	Fireman, .	-	Refused.
Michael Dilly, . . .	Boston, . . .	Fireman, .	Fireman, .	-
John R. McMahon, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
R. J. Moline, . . .	Boston, . . .	3d class, .	3d class, .	-
Martin Thompson, . . .	Boston, . . .	3d class, .	3d class, .	-
B. F. Lannox, . . .	Medford, . . .	Fireman, .	-	Special.
Wm. Slater, . . .	Chelsea, . . .	Special, .	Special, .	-
Wm. H. Davis, . . .	Lynn, . . .	Fireman, .	Special, .	-
Paul Landry, . . .	Lynn, . . .	3d class, .	Special, .	-
Chas. G. Colby, . . .	Lynn, . . .	Fireman, .	Special, .	-
R. G. Turner, . . .	Boston, . . .	2d class, .	2d class, .	-
K. R. Neptune, . . .	Boston, . . .	2d class, .	2d class, .	-
Peter Samson, . . .	Boston, . . .	3d class, .	3d class, .	-
Peter T. Mullen, . . .	Brighton, . . .	2d class, .	3d class, .	-
Seth B. Whiting, . . .	Boston, . . .	2d class, .	2d class, .	-
Chas. Brown, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
F. D. Wellcome, . . .	Waltham, . . .	Fireman, .	3d class, .	-
Wm. English, . . .	Chelsea, . . .	3d class, .	-	Refused.
Jos. H. Hunting, . . .	Boston, . . .	Fireman, .	Special, .	-
Alfred Tutten, . . .	East Boston, .	3d class, .	3d class, .	Limited.
Wm. S. Brennan, . . .	South Boston, .	Fireman, .	Fireman, .	Limited.
H. A. Hanson, . . .	East Boston, .	Fireman, .	-	Refused.
M. A. Preston, . . .	Somerville, .	Fireman, .	Special, .	-
Daniel Warner, . . .	Waltham, . . .	Fireman, .	Fireman, .	Limited.
Albert Willard, . . .	Shirley, . . .	2d class, .	2d class, .	-
John Flynn, . . .	Somerville, .	Fireman, .	Fireman, .	-
Dennis Callahan, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.
Luke Cunniff, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.
John F. Cotter, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Henry Haley, . . .	Waverley, . . .	Special, .	Special, .	-
P. F. Power, . . .	Boston, . . .	2d class, .	Special, .	-
Peter Weden, . . .	Boston, . . .	Special, .	Special, .	-
F. M. Walker, . . .	Cambridge, . .	3d class, .	Fireman, .	-
E. H. Kearney, . . .	Boston, . . .	1st class, .	1st class, .	-
Arthur Switzer, . . .	North Billerica, .	Fireman, .	Fireman, .	Limited.
Martin Hoar, . . .	North Billerica, .	Fireman, .	Fireman, .	-
H. L. Eaton, . . .	North Billerica, .	2d class, .	Special, .	-
I. M. Hanson, . . .	North Billerica, .	1st class, .	1st class, .	-
Thos. Gilligan, . . .	Waltham, . . .	Fireman, .	Special, .	-
Michael Lawless, . . .	Waltham, . . .	Fireman, .	Fireman, .	Limited.
P. H. Sweeney, . . .	Waltham, . . .	Fireman, .	Fireman, .	Limited.
W. B. True, . . .	Waltham, . . .	1st class, .	Special, .	-
O. B. Peterson, . . .	Waltham, . . .	1st class, .	2d class, .	-
Jas. C. Mahoney, . . .	Maynard, . . .	2d class, .	2d class, .	-
Fred J. Smith, . . .	Boston, . . .	3d class, .	Special, .	-
J. A. Swanson, . . .	Boston, . . .	2d class, .	3d class, .	Limited.
Patrick O'Brien, . . .	Boston, . . .	3d class, .	Fireman, .	-
Wm. McGaffigan, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Percy Warren, . . .	Boston, . . .	1st class, .	1st class, .	-
J. E. Pierce, . . .	Medford, . . .	Fireman, .	-	Refused.
Patrick Shea, . . .	Cambridgeport, .	3d class, .	Fireman, .	Limited.
S. F. West, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Oscar Boyd, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Samuel Morrison, . . .	Waltham, . . .	1st class, .	Fireman, .	-
Olaf Benson, . . .	Arlington, . . .	3d class, .	Special, .	-
F. E. F. Eldridge, . . .	Chelsea, . . .	3d class, .	Fireman, .	-
Wm. B. Clancy, . . .	Boston, . . .	3d class, .	Fireman, .	Limited.
John Galvin, . . .	Cambridgeport, .	3d class, .	Fireman, .	Limited.
Jas. E. Gordon, . . .	Cambridgeport, .	2d class, .	2d class, .	-
John J. Mahoney, . . .	Cambridgeport, .	3d class, .	Fireman, .	-
Thos. B. Quinlan, . . .	Watertown, . . .	2d class, .	-	Refused.
Jas. Polly, . . .	Stoneham, . . .	3d class, .	-	Refused.
Tilman Boos, . . .	Somerville, . . .	Fireman, .	-	Refused.
Wm. Wright, . . .	Roxbury, . . .	3d class, .	Fireman, .	Limited.
A. M. Cory, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
John P. Sheehan, . . .	South Boston, . .	Fireman, .	Fireman, .	Limited.

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Michael J. Whelan, . . .	Cambridge, . . .	Fireman, . . .	Fireman, . . .	Limited.
Cornelius Crotty, . . .	South Boston, . . .	Fireman, . . .	Fireman, . . .	-
John A. Sundell, . . .	Boston, . . .	Fireman, . . .	Fireman, . . .	Limited.
John Hogan, . . .	Cambridge, . . .	Fireman, . . .	Fireman, . . .	-
E. Maloney, . . .	Cambridge, . . .	Fireman, . . .	Fireman, . . .	Limited.
Frederick Tippet, . . .	Cambridge, . . .	Fireman, . . .	-	Refused.
Samuel Sewell, . . .	Boston, . . .	3d class, . . .	-	Refused.
Robert Dunn, . . .	East Cambridge, . . .	Fireman, . . .	Fireman, . . .	-
Wm. H. Evans, . . .	West Newton, . . .	1st class, . . .	2d class, . . .	-
Chas. F. Thaxter, . . .	Somerville, . . .	1st class, . . .	2d class, . . .	-
H. A. Sullivan, . . .	Medford, . . .	2d class, . . .	2d class, . . .	-
R. N. Knapp, . . .	Salem, . . .	2d class, . . .	2d class, . . .	-
John T. Flanders, . . .	Boston, . . .	3d class, . . .	3d class, . . .	Revoked.
John White, . . .	Somerville, . . .	Fireman, . . .	Fireman, . . .	Limited.
Chas. Munroe, . . .	Cambridge, . . .	Fireman, . . .	Special, . . .	-
Frank Mott, . . .	Boston, . . .	1st class, . . .	Special, . . .	-
E. G. Grant, . . .	Marblehead, . . .	2d class, . . .	3d class, . . .	-
Patrick E. Rogers, . . .	Waltham, . . .	3d class, . . .	-	Refused.
Ellery A. Walker, . . .	Charlestown, . . .	1st class, . . .	3d class, . . .	-
R. G. Turner, . . .	Boston, . . .	2d class, . . .	3d class, . . .	-
R. K. Martin, . . .	South Boston, . . .	Fireman, . . .	Fireman, . . .	-
H. E. Hobbs, . . .	Weston, . . .	1st class, . . .	2d class, . . .	-
Edw. Sheehan, . . .	Cambridgeport, . . .	Fireman, . . .	-	Refused.
Gustavus Ericson, . . .	Boston, . . .	2d class, . . .	2d class, . . .	-
Chas. M. Peterson, . . .	Boston, . . .	3d class, . . .	-	Refused.
Geo. J. Bennett, . . .	South Boston, . . .	Fireman, . . .	Fireman, . . .	-
Wm. Ronan, . . .	South Boston, . . .	Fireman, . . .	Fireman, . . .	-
J. O. Harris, . . .	West Somerville, . . .	Special, . . .	Special, . . .	-
Frank S. Woodfin, . . .	Marblehead, . . .	Special, . . .	Special, . . .	-
O. Jellum, . . .	Waltham, . . .	Fireman, . . .	-	Refused.
John R. Moor, . . .	Waltham, . . .	Fireman, . . .	Fireman, . . .	Limited.
R. K. Wyman, . . .	Waltham, . . .	Fireman, . . .	Fireman, . . .	Janitor.
Herbert W. Groves, . . .	Waltham, . . .	Fireman, . . .	Fireman, . . .	Low pressure.
Patrick Galvin, . . .	Somerville, . . .	Fireman, . . .	Fireman, . . .	Limited.
James Miller, . . .	South Boston, . . .	Fireman, . . .	Fireman, . . .	-
A. Williams, . . .	Chelsea, . . .	Fireman, . . .	Special, . . .	-
G. B. Robinson, . . .	Cambridgeport, . . .	Fireman, . . .	Fireman, . . .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Peter Cooney, . . .	East Cambridge,	Fireman, .	3d class, .	-
F. R. Barker, . . .	Beverly, . . .	2d class, .	2d class, .	-
John J. Higgins, . . .	South Boston, .	Fireman, .	-	Refused.
W. A. Milliken, . . .	Somerville, . .	1st class, .	Special, .	-
P. A. Egan,	South Boston, .	Fireman, .	Fireman, .	Limited.
W. F. Cheney, . . .	Waltham, . . .	Fireman, .	-	Refused.
C. F. Wellington, . . .	Waltham, . . .	Fireman, .	Fireman, .	Low pressure.
Jas. A. Price,	Cambridge, . .	2d class, .	3d class, .	-
Geo. C. Leonard, . . .	Boston,	2d class, .	3d class, .	-
Wm. Bray,	Boston,	2d class, .	3d class, .	-
John I. Green,	Cambridgeport, .	2d class, .	3d class, .	-
Henry Hughes,	South Boston, .	3d class, .	3d class, .	-
John B. Crowe,	Boston,	Fireman, .	Fireman, .	-
Wm. Henry Cox,	Boston,	2d class, .	-	Refused.
Geo. Lomax,	Boston,	2d class, .	2d class, .	-
S. S. Bell,	Andover,	1st class, .	Special, .	-
F. G. Beach,	Boston,	2d class, .	2d class, .	-
Henry G. Young,	Boston,	1st class, .	1st class, .	-
J. F. Horrigan,	Boston,	Fireman, .	Special, .	-
Wm. McNamara,	Cambridge, . . .	Fireman, .	Fireman, .	-
P. J. Concannon,	Boston,	Fireman, .	Fireman, .	Limited.
Fred Euting,	Boston,	Fireman, .	Fireman, .	-
M. Galvin,	Boston,	Fireman, .	Fireman, .	Limited.
Geo. J. Coughlin,	Boston,	Fireman, .	Fireman, .	Limited.
Michael Gannon,	Boston,	Fireman, .	Fireman, .	Limited.
Jos. Sweis,	Boston,	Fireman, .	Fireman, .	Limited.
C. A. Hall,	Cambridgeport, .	3d class, .	-	Refused.
Wm. Hutchinson,	Waltham,	3d class, .	Special, .	-
Geo. F. Barry,	Boston,	2d class, .	2d class, .	-
S. G. French,	Everett,	Special, .	-	Refused.
John Jordan,	South Boston, .	Fireman, .	-	Refused.
Oscar Boyd,	Boston,	Special, .	-	Refused.
J. J. Gately,	Boston,	Fireman, .	Fireman, .	-
Prudent Fortier,	Somerville, . . .	2d class, .	Fireman, .	-
Hugh McCarron,	Boston,	Hoisting, .	Hoisting, .	-
Wm. Murphy,	Chelsea,	Hoisting, .	Hoisting, .	-
Maurice Rock,	South Boston, .	Hoisting, .	Hoisting, also 3d class.	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
J. E. Cavanaugh, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Henry L. Hurd, . . .	Chelsea, . . .	Hoisting, .	Hoisting, .	-
W. J. Crotty, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Geo. Stanton, . . .	East Boston, .	1st class, .	Hoisting, .	-
Chas. M. Packard, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Frank Lieneman, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
J. E. Butler, . . .	Somerville, .	Hoisting, .	Hoisting, .	-
Jas. Raymond, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
J. I. Hutchinson, . . .	Winthrop, . .	Hoisting, .	Hoisting, .	-
A. M. Drake, . . .	South Boston, .	Hoisting, .	Hoisting, .	-
Neil O'Donnell, . . .	South Boston, .	Hoisting, .	Hoisting, .	-
John F. Thorpe, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
S. A. Manchester, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
A. M. Longfellow, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Wm. A. Norton, . . .	East Boston, .	Hoisting, .	Hoisting, .	-
J. Sarsfield, . . .	Cambridgeport, .	Hoisting, .	Hoisting, .	-
Frank Ginnety, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Geo. F. Chessman, . . .	Boston, . . .	3d class, .	Fireman, .	Low pressure.
Jas. R. McLaughlin, . . .	Boston, . . .	Fireman, .	Special, .	-
P. F. O'Keefe, . . .	No. Cambridge, .	3d class, .	Hoisting, also 3d class.	-
Edw. Cairns, . . .	Somerville, .	Hoisting, .	Hoisting, .	-
Geo. W. Bates, . . .	Cambridgeport, .	3d class, .	3d class, .	-
G. H. Cloyes, . . .	Cambridgeport, .	Fireman, .	-	Refused.
W. H. Goodall, . . .	Boston, . . .	Fireman, .	-	Refused.
Thos. Buckley, . . .	Boston, . . .	2d class, .	Hoisting, .	-
Geo. H. Paige, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
C. H. Hillier, . . .	Somerville, .	3d class, .	3d class, also hoisting.	-
John F. Kennedy, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Chas. S. Peers, . . .	East Boston, .	2d class, .	2d class, also hoisting.	-
Roger G. Davis, . . .	Boston, . . .	3d class, .	Fireman, .	Low pressure.
Geo. E. Fuller, . . .	Melrose, . . .	Special, .	Special, .	-
Calvin Graham, . . .	Boston, . . .	3d class, .	Special, .	-
John Driscoll, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Wm. Kirby, . . .	Boston, . . .	Fireman, .	Hoisting, .	-
Michael Broderick, . . .	Boston, . . .	3d class, .	Hoisting, .	-
Wm. White, . . .	Boston, . . .	3d class, .	Hoisting, .	-
John R. White, . . .	Boston, . . .	2d class, .	Hoisting, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
C. P. H. Lattimore, . . .	Boston, . . .	3d class, .	Hoisting, .	-
Jas. Riley,	Boston, . . .	3d class, .	Hoisting, .	-
Martin Coleman, . . .	East Boston, .	Fireman, .	Fireman, .	-
T. F. Maroney,	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Henry McArt,	Jamaica Plain, .	2d class, .	2d class, .	-
Peter V. Fernandes, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Henry J. May,	Boston, . . .	2d class, .	3d class, .	-
Jas. Buchanan,	Dorchester, . .	2d class, .	Fireman, .	Limited.
Jas. J. Markham,	Brookline, N. H.,	2d class, .	3d class, .	-
Emil Johnson,	Arlington, . . .	3d class, .	-	Refused.
Daniel Warner,	Waltham, . . .	3d class, .	Fireman, .	Limited.
Michael McTigue,	Roxbury, . . .	Fireman, .	Fireman, .	Limited.
G. S. McFarland,	West Somerville,	Fireman, .	Fireman, .	-
Jas. Plunkett,	Roxbury, . . .	Fireman, .	Fireman, .	Limited.
S. W. Chandler,	Lynn,	2d class, .	2d class, .	-
Wm. L. Puffer,	Boston,	Special, .	Special, .	-
G. B. Robinson,	Cambridgeport, .	3d class, .	Special, .	-
Jas. Nolan,	Medford, . . .	3d class, .	3d class, .	-
Jas. J. Flynn,	Boston,	Fireman, .	Fireman, .	-
Hugh McIntyre,	Boston,	2d class, .	Fireman, .	-
Chas. A. Lynch,	Dorchester, . .	Special, .	Special, .	Heating.
Frank E. Peters,	Waltham, . . .	Special, .	Special, .	-
Daniel Gilmore,	Charlestown, . .	Fireman, .	Fireman, .	Limited.
Daniel Collins,	Charlestown, . .	Fireman, .	Fireman, .	Limited.
Geo. H. Cogswell,	Boston,	2d class, .	2d class, .	Limited.
Henry P. Sheppelle, . . .	Boston,	3d class, .	Hoisting, .	-
W. H. Bowman,	Lynn,	3d class, .	Fireman, .	Limited.
Allen Midwood,	Boston,	Fireman, .	Fireman, .	Low pressure.
Emil Anderson,	Boston,	Fireman, .	Fireman, .	Limited.
Thos. J. White,	Charlestown, . .	2d class, .	Fireman, .	Limited.
Oliver Cook,	East Boston, . .	Hoisting, .	Hoisting, .	-
Stephen O'Handley,	Boston,	3d class, .	Special, .	-
Patrick Colleran,	Boston,	3d class, .	Hoisting, .	-
Thos. Fahey,	Boston,	Fireman, .	Hoisting, .	-
Michael J. Kelleher, . . .	East Boston, . .	3d class, .	Special, .	-
M. Murphy,	Framingham, . .	Fireman, .	Fireman, .	-
Chas. W. Leipprault, . . .	North Woburn, .	2d class, .	Special, .	-

Examination Report — Continued.

NAME.	City or Town	License Applied for.	Class of License Granted.	Remarks.
B. M. Kettler, . . .	Roxbury, . . .	Hoisting, .	Hoisting, .	-
Wm. H. Davis, . . .	Lynn, . . .	2d class, .	Special, .	-
Wm. Ryan, . . .	Lowell, . . .	Special, .	Special, .	-
John M. Brinn, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Martin Muir, . . .	East Boston, .	Fireman, .	-	Refused.
Patrick Donlan, . . .	Waltham, . . .	Fireman, .	-	Refused.
F. W. Milliken, . . .	Somerville, .	2d class, .	2d class, .	-
John Morris, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Jacob Adler, . . .	Boston, . . .	2d class, .	Refused, .	Intoxication.
F. A. Cushman, . . .	Boston, . . .	2d class, .	2d class, .	-
W. R. Drake, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
John Michaud, . . .	Boston, . . .	2d class, .	2d class, .	-
Olaf Benson, . . .	Cambridgeport, .	Fireman, .	Fireman, .	Low pressure.
Geo. Washington, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Peter Finn, . . .	Malden, . . .	Fireman, .	Fireman, .	Limited.
Geo. M. Lind, . . .	Malden, . . .	1st class, .	2d class, .	-
O. J. R. Morse, . . .	Boston, . . .	3d class, .	Hoisting, .	-
Frank Mott, . . .	Boston, . . .	3d class, .	Hoisting, .	-
H. C. Griffin, . . .	Boston, . . .	3d class, .	Hoisting, .	-
Samuel Hall, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
John North, . . .	East Boston, .	Fireman, .	Fireman, .	-
Patrick O'Neill, . . .	East Boston, .	2d class, .	2d class, .	Limited.
H. C. Carey, . . .	South Boston, .	Special, .	-	Refused:
Wm. McDonald, . . .	Boston, . . .	Special, .	Special, .	-
J. T. Michener, . . .	Medford, . . .	3d class, .	3d class, .	Limited.
H. P. Cogswell, . . .	Salem, . . .	2d class, .	2d class, .	-
Jas. H. McManus, . . .	East Boston, .	3d class, .	Hoisting, .	-
John Shelton, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Michael A. Mullin, . . .	Somerville, .	Fireman, .	Fireman, .	Limited.
Jas. Wood, . . .	Roxbury, . . .	Fireman, .	Fireman, .	-
Geo. D. Munroe, . . .	Boston, . . .	3d class, .	Fireman, .	Limited.
Geo. A. Downey, . . .	Boston, . . .	2d class, .	Fireman, .	Limited.
Wm. J. Carroll, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Peter J. Dyer, . . .	Jamaica Plain, .	Fireman, .	Fireman, .	-
Joseph Warner, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Patrick Sullivan, . . .	South Boston, .	Hoisting, .	Hoisting, .	-
S. C. Hollingshead, . . .	Boston, . . .	Special, .	Special, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Jas. Gallagher, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
A. J. Sommer, . . .	South Boston, .	Fireman, .	Fireman, .	Limited.
Jas. A. Cameron, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Jas. H. Vail, . . .	Boston, . . .	2d class, .	Fireman, .	Limited.
John A. Grant, . . .	Boston, . . .	Fireman, .	-	Refused.
Geo. W. Clark, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
John Casey, . . .	South Boston, .	Fireman, .	Fireman, .	Limited.
Robert Jos. Kirkwood, .	South Boston, .	Fireman, .	Fireman, .	-
S. J. Putney, . . .	Wakefield, .	Fireman, .	Special, .	-
Jas. L. McLaughlin, . .	Boston, . . .	Hoisting, .	Hoisting, .	-
W. S. Howard, . . .	Watertown, .	Special, .	Special, .	-
Geo. Tonks, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited
Carl A. Lindstrom, . .	Boston, . . .	Fireman, .	Fireman, .	Limited
Michael Carroll, . . .	Everett, . . .	Fireman, .	Fireman, .	-
Patrick Walsh, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Dosh Price, . . .	Boston, . . .	3d class, .	3d class, .	Limited.
Arthur Sullivan, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
John Ryan, . . .	Boston, . . .	Fireman, .	Fireman, .	-
E. M. F. Platt, . . .	Clifondale, .	Fireman, .	Fireman, .	Limited.
Jos. F. Murphy, . . .	Charlestown, .	Hoisting, .	Hoisting, .	-
Owen Marley, . . .	Charlestown, .	Hoisting, .	Hoisting, .	-
Henry Adams, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
John McFarlan, . . .	East Cambridge,	Hoisting, .	Hoisting, .	-
J. L. Boyce, . . .	Saugus, . . .	Hoisting, .	Hoisting, .	-
John C. King, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Nicholas Dowd, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Curtis I. Randlett, . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Wm. Mullen, . . .	Cambridgeport, .	Hoisting, .	Hoisting, .	-
S. Morse, Jr., . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
F. W. Kennick, . . .	East Boston, .	Hoisting, .	Hoisting, .	Limited.
H. W. Finney, . . .	East Boston, .	Hoisting, .	Hoisting, .	Limited.
John Stephens, . . .	South Boston, .	Special, .	Special, .	-
Wm. H. Phelan, . . .	Roxbury, . . .	Fireman, .	Fireman, .	-
O. P. Bucklin, . . .	Roxbury, . . .	3d class, .	Special, .	-
D. H. Burns, . . .	Waltham, . . .	Special, .	-	Refused.
M. F. Mullen, . . .	South Boston, .	2d class, .	2d class, .	-
Wm. Bax, . . .	Somerville, .	Fireman, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Chas. L. Drew, . . .	Boston, . . .	2d class, .	2d class, .	Limited.
Daniel J. McCarty, . . .	Boston, . . .	3d class, .	3d class, .	-
A. S. Smith, . . .	Boston, . . .	2d class, .	3d class, .	-
F. J. Caffyn, . . .	East Boston, . . .	2d class, .	2d class, .	Limited.
Thos. M. Hogan, . . .	South Boston, . . .	Fireman, .	Fireman, .	-
Wm. T. Riley, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Jas. Devine, . . .	East Boston, . . .	Fireman, .	Fireman, .	Limited.
Luther Franks, . . .	South Boston, . . .	2d class, .	2d class, .	-
John J. Shea, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.
Daniel Booyan, . . .	Medford, . . .	Special, .	Special, .	-
Nat Nevins, . . .	Roxbury, . . .	Fireman, .	Fireman, .	Limited.
Arthur E. Keyes, . . .	Lynn, . . .	Special, .	Special, .	-
A. F. Emerson, . . .	Reading, . . .	Special, .	Special, .	-
Jos. A. Bilsito, . . .	Randolph, . . .	Hoisting, .	Hoisting, .	-
Jas. Sullivan, . . .	South Boston, . . .	Fireman, .	Fireman, .	-
Jas. McClary, . . .	Waverly, . . .	Fireman, .	Fireman, .	Limited.
Richard Tuttle, . . .	Waverly, . . .	Fireman, .	Fireman, .	-
F. J. Mott, . . .	Boston, . . .	Fireman, .	Fireman, .	-
N. M. Damon, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Horace O. Smith, . . .	Waverly, . . .	Special, .	Special, .	-
Brainerd Perkins, . . .	Haverhill, . . .	Fireman, .	-	Refused.
Michael Galvin, . . .	South Boston, . . .	Fireman, .	Fireman, .	-
L. F. Warren, . . .	West Townsend, . . .	Hoisting, .	Hoisting, .	-
E. T. Morris, . . .	Cambridge, . . .	Fireman, .	Fireman, .	Special.
Thos. Fahey, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Frank N. Gray, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Jonathan Perry, . . .	Marblehead, . . .	2d class, .	2d class, .	-
Thos. McCall, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Frank Mott, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Thos. E. Cragin, . . .	Boston, . . .	Fireman, .	Fireman, .	-
A. R. Stephens, . . .	Boston, . . .	1st class, .	2d class, .	-
Geo. H. Smith, . . .	Charlestown, . . .	Fireman, .	Special, .	-
John L. Hussey, . . .	Boston, . . .	Fireman, .	Fireman, .	-
Thos. Kelly, . . .	Waltham, . . .	Fireman, .	Fireman, .	Limited.
Jos. H. Butt, . . .	Boston, . . .	Fireman, .	Fireman, .	Low pressure.
Patrick Doyle, . . .	Roxbury, . . .	Hoisting, .	Hoisting, .	-
Michael Glasheen, . . .	Boston, . . .	Fireman, .	Fireman, .	Limited.

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Jas. H. Gregory, . . .	Lynn, . . .	Hoisting, .	Hoisting, .	-
Thos. Hughes, . . .	Roxbury, . . .	Hoisting, .	Hoisting, .	-
John H. Farrell, . . .	Somerville, . . .	Hoisting, .	Hoisting, .	-
John Bradley, . . .	Everett, . . .	Special, .	Special, .	-
Pat Sullivan, . . .	Somerville, . . .	Fireman, .	Fireman, .	Limited.
Patrick Hanlon, . . .	Cambridge, . . .	Fireman, .	Fireman, .	Limited.
Timothy Murphy, . . .	Somerville, . . .	Fireman, .	Fireman, .	-
Peter J. McDonald, . . .	Somerville, . . .	Fireman, .	Fireman, .	-
Timothy Corbett, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	-
John Cronin, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Limited.
John Gallagher, . . .	Somerville, . . .	Fireman, .	Fireman, .	Limited.
Michael Duffy, . . .	Cambridge, . . .	Fireman, .	Fireman, .	-
S. W. Ludwig, . . .	Somerville, . . .	Fireman, .	Fireman, .	-
Joseph Francis, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Limited.
James Byrnes, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Limited.
Simon Welch, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Limited.
Thos. Stokes, . . .	Cambridgeport, . . .	Fireman, .	Fireman, .	-
Harry Bell, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	-
Patrick Walsh, . . .	South Boston, . . .	Fireman, .	Fireman, .	-
Patrick J. Fleming, . . .	Waltham, . . .	Fireman, .	Fireman, .	Limited.
Roscoe J. Hook, . . .	Somerville, . . .	1st class, .	1st class, .	-
Henry Nitsch, . . .	Somerville, . . .	1st class, .	1st class, .	-
Jas. F. Guthrie, . . .	Somerville, . . .	1st class, .	1st class, .	-
John Mason, . . .	Somerville, . . .	2d class, .	2d class, .	-
R. D. King, . . .	Boston, . . .	Hoisting, .	Hoisting, .	-
Alfred Brooks Fry, . . .	Boston, . . .	1st class, .	1st class, .	-
John F. Donnell, . . .	Somerville, . . .	Fireman, .	Fireman, .	Limited.
Oscar A. Draper, . . .	Lowell, . . .	1st class, .	1st class, .	-
Geo. Q. Chamberlin, . . .	Lowell, . . .	1st class, .	1st class, .	-
F. H. Ryder, . . .	South Boston, . . .	Fireman, .	Fireman, .	-
D. E. Traviss, . . .	Melrose, . . .	Special, .	Special, .	-
M. A. Blood, . . .	Melrose, . . .	3d class, .	3d class, .	-
Jonathan Barrett, . . .	Melrose, . . .	3d class, .	3d class, .	-
Jas. S. Sullivan, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Special.
James Cullen, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	-
Michael Dennehy, . . .	East Cambridge, . . .	Fireman, .	Fireman, .	Limited.
Bartholomew O'Dowd, . . .	Boston, . . .	Special, .	Special, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
J. R. Estabrooks, . . .	Boston, . . .	1st class, .	1st class, .	-
John L. Collins, . . .	Boston, . . .	1st class, .	1st class, .	-
F. D. Hall, . . .	Boston, . . .	1st class, .	1st class, .	-
F. L. Amazeen, . . .	Boston, . . .	1st class, .	1st class, .	-
John McClosky, . . .	Boston, . . .	1st class, .	1st class, .	-
P. J. Hogan, . . .	Boston, . . .	1st class, .	1st class, .	-
John R. McCausland, . . .	Boston, . . .	1st class, .	1st class, .	-
J. H. McNeil, . . .	Boston, . . .	1st class, .	1st class, .	-
Geo. E. Godfrey, . . .	Boston, . . .	1st class, .	1st class, .	-
P. D. Blackden, . . .	Boston, . . .	1st class, .	1st class, .	-
John F. Cochran, . . .	Boston, . . .	1st class, .	1st class, .	-
John F. Fife, . . .	Boston, . . .	1st class, .	1st class, .	-
Wm. H. Kenney, . . .	Boston, . . .	1st class, .	1st class, .	-
Wm. Berwick, . . .	Boston, . . .	1st class, .	1st class, .	-
Henry R. Ellsworth, . . .	Boston, . . .	1st class, .	1st class, .	-
C. I. Albee, . . .	Boston, . . .	1st class, .	1st class, .	-
I. M. McChesney, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
Adam Bletzer, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
Edw. W. Skinner, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
D. F. Kilgore, . . .	Boston, . . .	1st class, .	1st class, .	-
Nathaniel Boutlier, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
A. L. Chapman, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
F. J. Hickey, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
Thos. A. McLaughlin, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
Geo. F. Gibbs, . . .	Boston, . . .	1st class, .	1st class, .	-
D. S. Hickey, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
John H. Hazlett, . . .	Boston, . . .	1st class, .	1st class, .	High pressure.
J. B. Black, . . .	Boston, . . .	1st class, .	1st class, .	-
Wm. H. Blaisdell, . . .	Boston, . . .	1st class, .	1st class, .	-
F. C. Brown, . . .	Boston, . . .	1st class, .	1st class, .	-
David Chapman, . . .	Boston, . . .	1st class, .	1st class, .	-
John B. Gilles, . . .	Boston, . . .	1st class, .	Special, .	-
John H. Blanchard, . . .	Boston, . . .	1st class, .	Special, .	-
H. N. Ford, . . .	Boston, . . .	1st class, .	2d class, .	-
Wm. H. Garland, . . .	Boston, . . .	1st class, .	Special, .	-
Daniel Connell, . . .	Boston, . . .	1st class, .	Special, .	-
John Coulch, . . .	Boston, . . .	1st class, .	Special, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
J. L. Abbott, . . .	Boston, . . .	1st class, .	Special, .	-
J. M. Grant, . . .	Boston, . . .	1st class, .	Special, .	-
John J. Flanagan, . .	Boston, . . .	1st class, .	Special, .	-
Jos. L. Adams, . . .	Boston, . . .	1st class, .	Special, .	-
John Boyd, . . .	Boston, . . .	1st class, .	Special, .	-
P. J. Grabn, . . .	Boston, . . .	1st class, .	Special, .	-
Robert A. Greenfield, . .	Boston, . . .	1st class, .	Special, .	-
Frank Hussey, . . .	Boston, . . .	1st class, .	Special, .	-
C. W. Johnson, . . .	Boston, . . .	1st class, .	Special, .	-
Chas. W. Jacobs, . . .	Boston, . . .	1st class, .	Special,]	-
C. E. Hillstrom, . . .	Boston, . . .	1st class, .	Special, .	-
M. J. Campbell, . . .	Boston, . . .	1st class, .	Special, .	-
H. L. Cole, . . .	Boston, . . .	1st class, .	Special, .	-
R. S. De Mott, . . .	Boston, . . .	1st class, .	Special, .	-
Redmond Evans, . . .	Boston, . . .	1st class, .	Special, .	-
Wm. F. Barry, . . .	Boston, . . .	1st class, .	Special, .	-
Jas. McFaul, . . .	Boston, . . .	1st class, .	Special, .	-
Robert Clark, . . .	Boston, . . .	1st class, .	Special, .	-
J. Henry Hanlon, . . .	Boston, . . .	1st class, .	Special, .	-
F. A. Fletcher, . . .	Boston, . . .	1st class, .	Special, .	-
L. W. Curtis, . . .	Boston, . . .	1st class, .	Special, .	-
Henry G. Bean, . . .	Boston, . . .	1st class, .	Special, .	-
Wm. Johnstone, . . .	Boston, . . .	1st class, .	Special, .	-
Herbert Gough, . . .	Boston, . . .	1st class, .	Special, .	-
Jas. R. Burns, . . .	Boston, . . .	1st class, .	Special, .	-
Thos. R. Armstrong, . .	Boston, . . .	1st class, .	Special, .	-
W. T. Ingraham, . . .	Boston, . . .	1st class, .	Special, .	-
Thos. Holt, . . .	Boston, . . .	1st class, .	Special, .	-
N. W. Garrity, . . .	Boston, . . .	1st class, .	Special, .	-
Thos. Ditchett, . . .	Boston, . . .	1st class, .	Special, .	-
Robert Butler, . . .	Boston, . . .	1st class, .	Special, .	-
James Barnes, . . .	Boston, . . .	1st class, .	Fireman, .	Limited.
Chas. D. Curtis, . . .	Boston, . . .	1st class, .	3d class, .	-
S. M. Curtice, . . .	Boston, . . .	1st class, .	1st class, .	-
Geo. D. French, . . .	Boston, . . .	1st class, .	Fireman, .	-
John F. Ford, . . .	Boston, . . .	1st class, .	Fireman, .	-
W. H. Harlow, . . .	Boston, . . .	1st class, .	2d class, .	-

Examination Report — Concluded.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John Huber,	Boston,	1st class, .	3d class, .	-
A. C. Armstrong,	Boston,	1st class, .	3d class, .	-
John B. Gill,	Boston,	1st class, .	3d class, .	-
F. P. Knight,	Boston,	1st class, .	3d class, .	-
F. E. Ayer,	Boston,	1st class, .	3d class, .	-
Chas. T. Bucksey,	Boston,	1st class, .	3d class, .	-
E. W. Jones,	Boston,	1st class, .	3d class, .	-
Thos. W. Fitzgerald,	Boston,	1st class, .	3d class, .	-

REPORT OF INSPECTOR FERGUSON.

District No. 2.

SIR :—I herewith submit my first annual report, relative to the operation of the law both as regards boiler inspection and examination of engineers or the granting of licenses.

My experience with the owners of steam boilers is universally the same; that is, they adapt themselves to the obligations of the law, as in no instance have I found an owner who disregards or objects in any way to the orders sent or instructions given to make life and property more secure.

But the security of life and property depends upon conditions, and in steam boilers the first essential condition is the freedom from liability to explode. The attainment of this condition is far from universal, which is only too well proven by the disastrous explosions which occur from time to time, with considerable loss of property, not to mention the human lives sacrificed. Steam boilers do not explode from any theoretical deductions, but from the safe and reliable rule of cause, and effect is as sure to follow cause as daylight is to follow darkness. Now, if we take the rule of cause and effect (pertaining to steam boilers) into consideration, and follow the rule in the case of a well-constructed boiler, composed of superior material, we may place it under conditions that from its location and external surroundings are effectual to bring about cause, and finally it terminates with explosion from external corrosion. As an instance of the aforesaid, I would mention the disastrous explosion which occurred in New Bedford on August 20 of the present year, with the loss of one life and considerable destruction to property, the shell of said boiler having corroded externally from an original thickness of nine thirty-seconds to one-eighth of an inch. Such is the effect.

Again, if we follow cause and effect, and intrust a superior boiler in the hands or under the jurisdiction of a person or attendant who does not even possess a superficial knowledge of what he is handling, and if he does not acquire an amount of knowledge that will be consistent with safety for the public, from his ignorance of the subject the consequence is neglect, and neglect is the parent of disaster. If we consider the too frequent want of care and intelligence on the part of those having charge of steam boilers, and the numerous dangerous defects daily discovered by boiler inspectors, the mystery is still to be solved why so many boilers escape explosion at the ordinary working pressure.

The conditions existing in steam boilers that I have examined or inspected can be seen by referring to my tabulated statement; but aside from that statement I would mention instances of general deterioration, over-pressure, defects, lack of the necessary safety appliances, etc. Under the head of general deterioration I cannot refrain from giving dishonorable mention to schools and public buildings. I am not prepared to state from what cause general deterioration should exist in schools and public buildings any more than elsewhere, notwithstanding it does. Of the twenty school boilers inspected by me since my appointment, the rule is that the boilers are badly defective. It seems to me almost as though, at the time of erection, the sole purpose was to get the work on said boilers and appendages wholly contrary to the laws of safety. As a few of the existing errors, I will name the following: no fusible plug, or, if there were one, it would be in the wrong place, or the parties who did the work were indifferent about inserting one of sufficient size (one-half inch); water columns or combinations would be placed in such a position that there would be six inches of water in said water column, when the fusible plug and considerable of fire tubes would be unprotected by water; safety valves of insufficient area for the escape of surplus steam; many boilers without hand holes or any other means of cleaning the sediment and scale, which would be precipitated on the fire surfaces of said boilers; boilers whose dry sheet is exposed to the action of the fire, done by some incompetent person who had the gift of perseverance but not the necessary amount of knowledge to do his work with intelligence.

Again, in instances where I visited schools and public buildings I found internal corrosion, pitting, defective staying, and in one instance had to order extra stays to resist the desired pressure. External corrosion is evident in nearly every case of school boilers, due in a great measure to the fact that the attendant does not clean off his boiler when out of use, consequently it absorbs the moisture of the surrounding air, which is being attracted by the accumulation of dirt which was allowed to remain on boiler when laid up for the season.

From this experience it does not require an elastic imagination to form a definite conclusion. The above is not imaginary, but protrudes so as to become an evident reality.

An instance of over-pressure in an extensive manufacturing concern, for whom I was inspecting their boilers, occurred a short time since, where the conditions existing were as follows: diameter of boiler, seventy-two inches; thickness of plate, three-eighths of an inch; age, about thirty years. The boiler had at some pre-

vious time been burned and patched, as was evident by the repairs on crown sheet. Not only were the repairs as above described, but in more than one of the cases the rivets of the patch extended beyond the lap, and were chipped off by the workman. The owner persisted in trying to impress upon me the safety of said boilers at ninety pounds to the square inch; but no amount of persuasion could alter my judgment in the matter, and I ordered that seventy pounds must be the maximum pressure on these boilers. He is now talking of obtaining new and stronger boilers. The above is where hundreds of people try to earn a livelihood, unaware of the dangers by which they are surrounded.

Another case of how some owners proceed to accomplish work with the least expenditure of money came to my notice a few days ago, where a boiler was being operated without a pressure gauge, and the weight on the safety valve on said boiler was held in place by strings on the lever, said lever inclining at an angle of thirty degrees. Removal of said safety valve and the attachment of a pressure gauge relieved the danger, which at some time or other would result in loss of life and property.

The above are some of the many cases outside of total condemnation which come within the range of boiler inspection; but, as an aggravation of the aforementioned, the attendant did not burden his mind with an anxious feeling regarding his own personal safety. This is true more especially in schools and public buildings.

Engineers and attendants on steam boilers, generally speaking, should be in possession of a fair amount of knowledge pertaining to their business; but from my experience since my appointment as a boiler inspector and examiner I find that out of the number examined fifty-five per cent. were incapable of performing the duties that would be incumbent upon them if their requests were granted in the shape of licenses. This includes first, second and third class engineers; and in many cases the applicant was not only incapable as an engineer, but had to rank him as a fireman, under the jurisdiction of some superior attendant, showing the uncertainty of life and property where these men had charge or may have charge of the motive power in the form of steam boilers and engines. Consequent to the above there is some dissatisfaction among some, while others more than confirm the working of the law.

In referring to section 3, chapter 471, Acts of 1895, in relation to the different grades of engineers wherein the space to be covered is from one hundred and fifty horse-power to unlimited power, I beg leave to state my opinion in regard to the same, from what

I have seen and learned, that the insertion of two other grades (five hundred and one thousand horse-power) would give an opportunity to classify more intelligently some of the men who apply for first-class licenses.

I hope, however, from the large accumulation of facts which will be laid bare by the present law, to be able to lay before the public some time in the future a more detailed account of the defects to which boilers (more particularly) are liable, and the means of preventing them.

In conclusion, I will again state that a general readiness exists among owners and the public generally to co-operate with the officers of this department to further and develop the intent of the law in the boiler inspection department, and I feel confident that with judicious and intelligent effort the great benefit of the law will be realized by all.

Following is a summary of inspections and examinations, and tabulated statement:—

Examinations, Engineers and Firemen.

CLASS.	Applications Received.	Applicants Examined.	Licenses Granted.	Refused.
1,	435	50	25	—
2,	338	15	9	1
3,	523	10	21	—
Special,	274	11	27	—
Firemen,	870	180	180	—
H. and P.,	55	2	5	—
Total,	2,495	268	267	1

Summary of Inspections.

Boilers inspected,	44
Boilers ordered repaired,	28
Boilers condemned,	3
Number of defects found,	164
Number of defects dangerous,	130

Boiler Inspection Report.

DISTRICT No. 2.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Fall River.					
City of Fall River,	Osborne school,	1	1	Fusible plug,	Complied.
City of Fall River,	Osborne school,	—	—	None,	—
City of Fall River,	Broadway school,	3	2	Raise combination; lighter weight for safety valve,	Complied.
Metacomett National Bank,	Bank and offices,	5	4	Larger safety valve; combination raised; fusible plug; dry sheet protected; tubes cut off and headed on back end.	Complied.
Metacomett National Bank,	Bank and offices,	4	4	Raise combination; larger safety valve; remove sediment scale, bolts, etc., before using.	Complied.
Bristol County,	Court house,	4	3	Larger safety valve; fusible plug; extra braces; setting repaired,	Complied.
Bristol County,	Court house,	4	3	Larger safety valve; fusible plug; extra braces; setting repaired,	Complied.
Teachers of Jesus and Mary,	School,	5	4	Remove sediment; repair braces; larger safety valve; fusible plug,	Complied.
Barnaby Manufacturing Co.,	Cotton manufacturing,	—	—	None,	—
American Linen Co.,	Cotton manufacturing,	5	4	Repair braces; repair setting; protect dry sheet; remove sediment; adjust gauges.	Complied.
American Linen Co.,	Cotton manufacturing,	6	4	Repair braces; fusible plug removed; remove escape pipe; larger safety valve; sediment removed; pressure reduced to seventy pounds to the square inch.	Complied.
American Linen Co.,	Cotton manufacturing,	5	5	Larger safety valve; protect dry sheet; fusible plug; remove escape pipe; remove sediment.	Complied.
Francis Quinn,	Stoves,	15	15	Condemned,	—
City of Fall River,	Robeson school,	3	2	Protect dry sheet; raise combination; repair setting,	Complied.
City of Fall River,	N. B. Borden school,	5	3	Protect dry sheet; cut hand holes; lighter weights for safety valve; tubes pitted; poor setting.	Complied.

Boiler Inspection Report — Concluded.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Fall River — Concluded.					
City of Fall River,	Davenport school, . .	20	20	Two boilers condemned,	-
Emerson Borden,	Stores, halls, etc., . .	-	-	No orders,	-
Fall River Bleachery, . . .	Machine shop,	3	3	Put on larger safety valve; give proper pitch to escape pipe from safety valve; fusible plug.	Complied.
Barnaby Manufacturing Co., .	Cotton manufacturing, .	12	12	Remove escape pipe from safety valve; put in fusible plugs; put in drip above stop valve on four boilers.	Complied.
Paul A. Maynard,	Laundry,	4	3	Protect dry sheet; put in fusible plug; change feed pipe; larger safety valve.	Complied.
City of Fall River,	Mount Hope school, . .	3	2	Fusible plug; combination raised,	Complied.
City of Fall River,	Slade school,	4	3	Protect dry sheet; fusible plug; raise combination,	Complied.
City of Fall River,	Slade school,	4	2	Protect dry sheet; raise combination; poor setting,	Complied.
City of Fall River,	N. B. Borden school, . .	7	5	Cut hand holes; protect dry sheet; lighter weights for safety valve; put fusible plug in proper place; repair T iron on front head; poor setting; tubes pitted.	Complied.
City of Fall River,	Border City school, . .	5	4	Retube boiler; larger safety valve; raise combination; protect dry sheet; repair setting.	Complied.
City of Fall River,	Brown school,	4	1	Put checks on return pipes; remove back bridge wall; lower feed pipe in boiler.	Complied.
City of Fall River,	Covel Street school, . .	4	2	Protect dry sheet; reline furnace; fusible plug; remove back bridge wall.	Complied.
City of Fall River,	Westall school,	1	1	Corrected steam gauge,	Complied.
City of Fall River,	Durfee school,	3	2	Raise combination; corrected pressure gauge,	Complied.
City of Fall River,	Durfee school,	3	2	Raise combination; corrected pressure gauge,	Complied.

Hanover.

N. V. Goodrich, . . .	4	2	Removal of sediment; change feed pipe; fusible plug; corrected pressure gauge.	Complied.
Town of Hanover, . . .	5	4	Check valves on return pipes; larger safety valve; larger blow-off; lighter weights for safety valve.	In process.
E. Phillips & Sons, . . .	4	2	Safety valve; fusible plug; blow-off; drip on pressure gauge, . .	In process.
C. T. Stetson, . . .	2	2	Put drip on bottom of escape pipe from safety valve; remove sediment,	In process.

Hanson.

E. Phillips & Sons, . . .	1	1	Operate safety valve daily (found safety valve stuck fast), . . .	In process.
E. Phillips & Sons, . . .	1	1	No pressure gauge; attach one before using, . . .	In process.

Medfield.

Town of Medfield, . . .	5	4	Check valve on returns; larger safety valve; larger blow-off; less weights on safety valve.	Complied.
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Wrentham.

F. W. Fales, . . .	1	1	Solution for removal of scale, . . .	Complied.
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Examination Report.

DISTRICT No. 2.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
A. B. Bessey, . . .	Fall River, . . .	1st class, .	1st class, .	-
Chas. E. Tefft, . . .	Fall River, . . .	1st class, .	1st class, .	-
Phillip C. McComber, . . .	Fall River, . . .	1st class, .	1st class, .	-
Christian Todsén, . . .	Fall River, . . .	1st class, .	1st class, .	-
Daniel Hurley, . . .	Fall River, . . .	1st class, .	1st class, .	-
Cornelius J. Hurley, . . .	Fall River, . . .	1st class, .	1st class, .	-
Arthur B. Winter, . . .	Fall River, . . .	1st class, .	1st class, .	-
Jas. P. Sullivan, . . .	Fall River, . . .	1st class, .	1st class, .	-
William H. Halliday, . . .	New Bedford, . . .	1st class, .	1st class, .	-
Chas. H. Peets, . . .	New Bedford, . . .	2d class, .	3d class, .	-
Gilbert R. Taber, . . .	New Bedford, . . .	1st class, .	2d class, .	-
Benj. S. Holland, . . .	New Bedford, . . .	1st class, .	2d class, .	-
William W. Wing, . . .	New Bedford, . . .	1st class, .	1st class, .	-
Thos. H. Delaney, . . .	New Bedford, . . .	1st class, .	1st class, .	-
Harry A. Wright, . . .	New Bedford, . . .	Engineer, .	Special, .	-
Joseph Aubin, . . .	New Bedford, . . .	3d class, .	H. and P., .	-
David Valentine, . . .	Fall River, . . .	1st class, .	2d class, .	-
Le Beau Grundy, . . .	Fall River, . . .	1st class, .	2d class, .	-
Ira J. Hunt, . . .	Hyde Park, . . .	1st class, .	Special, .	-
Elijah Lincoln, . . .	Hyde Park, . . .	1st class, .	Special, .	-
Chas. M. Janes, . . .	Hyde Park, . . .	1st class, .	3d class, .	-
Elmer P. Runnels, . . .	Hyde Park, . . .	2d class, .	3d class, .	-
James Wilkinson, . . .	Hyde Park, . . .	3d class, .	Special, .	-
Hamilton B. Richardson, . . .	Hyde Park, . . .	Special, .	Special, .	-
J. I. Forbes, . . .	Hyde Park, . . .	Special, .	Special, .	-
John Griffin, . . .	Fall River, . . .	1st class, .	Special, .	-
John B. Carr, . . .	Fall River, . . .	1st class, .	Special, .	-
Frank L. Hill, . . .	Fall River, . . .	1st class, .	Special, .	-
Timothy D. Harrington, . . .	Fall River, . . .	1st class, .	Special, .	-
John W. Griffiths, . . .	Fall River, . . .	1st class, .	Special, .	-
John H. Sanford, . . .	Fall River, . . .	1st class, .	Special, .	-
William H. Wood, . . .	Fall River, . . .	Special, .	Special, .	-
Fred Beraker, . . .	Fall River, . . .	3d class, .	H. and P., .	-
Timothy Crowley, . . .	Fall River, . . .	H. and P., .	H. and P., .	-
Dennis T. Sullivan, . . .	Fall River, . . .	H. and P., .	H. and P., .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
F. H. Caldwell, . . .	Brookline, . . .	1st class, .	H. and P., .	-
C. W. Whittemore, . .	North Attlebor- ough.	1st class, .	Special, .	-
Fred W. Milliken, . .	Hull, . . .	1st class, .	3d class, .	—*
Edward A. Cummings, .	Nantucket, . . .	1st class, .	3d class, .	-
John McGlynn, . . .	East Weymouth, .	2d class, .	2d class, .	-
Clarence H. Bisbee, . .	Brockton, . . .	3d class, .	3d class, .	-
Donald L. Inglis, . . .	Hanover, . . .	2d class, .	Special, .	-
F. J. Turner, . . .	Hanover, . . .	2d class, .	3d class, .	-
Chas. T. Stetson, . . .	Hanover, . . .	3d class, .	3d class, .	-
Alexander H. Christie, .	Hanover, . . .	Special, .	Special, .	-
Herbert Torrey, . . .	Hanover, . . .	Special, .	Special, .	-
J. Fred Tower, . . .	Hanover, . . .	Special, .	Special, .	-
Albert L. Sylvester, . .	Hanover, . . .	Special, .	Special, .	-
Edward F. Newell, . . .	North Attlebor- ough.	1st class, .	2d class, .	-
W. P. Whittemore, . . .	North Attlebor- ough.	1st class, .	1st class, .	-
Herbert E. Page, . . .	North Attlebor- ough.	Special, .	Special, .	-
Albert R. Moulton, . . .	North Attlebor- ough.	Special, .	Special, .	-
Albert J. Moulton, . . .	North Attlebor- ough.	Special, .	Special, .	-
William Campbell, . . .	North Attlebor- ough.	3d class, .	Special, .	-
Manuel Roderick, . . .	New Bedford, . .	Fireman, .	Fireman, .	-
Henry M. Cook, . . .	Brookline, . . .	2d class, .	Special, .	-
John B. Perkins, . . .	East Walpole, . .	1st class, .	1st class, .	-
Elberton R. Ingraham, .	Truro, . . .	1st class, .	2d class, .	-
Andrew Parsons, . . .	Milton, . . .	2d class, .	2d class, .	-
Merrick H. Osgood, . . .	State Farm, . . .	2d class, .	2d class, .	-
Chas. H. Reilly, . . .	Canton, . . .	2d class, .	3d class, .	-
William Moore, . . .	Walpole, . . .	2d class, .	3d class, .	-
Thomas W. Reed, Jr., . .	North Dart- mouth.	Engineer, .	3d class, .	-
Alfred C. Damon, . . .	Hanover, . . .	Fireman, .	Fireman, .	Limited.
John O'Leary, . . .	Taunton, . . .	Fireman, .	Fireman, .	-
Frank H. Wheeler, . . .	Hyde Park, . . .	Fireman, .	Fireman, .	Limited.
Cyrus P. Reed, . . .	Taunton, . . .	Fireman, .	Fireman, .	-
Patrick O'Reilly, . . .	Taunton, . . .	Fireman, .	Fireman, .	-
Thomas Johnson, . . .	North Attlebor- ough.	Engineer, .	Fireman, .	-
Lemuel Pierce, . . .	North Attlebor- ough.	Fireman, .	Fireman, .	Limited.
Arthur Nedau, . . .	Whitman, . . .	3d class, .	Fireman, .	-

* Granted 2d class under appeal.

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Albert Therray, . . .	Cottage City, .	3d class, .	Fireman, .	-
Wilmon H. White, . .	Avon, . . .	Engineer, .	Fireman, .	-
Antonio Rogers, . . .	South Hanover, .	Fireman, .	Fireman, .	Limited.
Henry L. Hunt, . . .	South Hanover, .	Fireman, .	Fireman, .	Limited.
Enoch Johnson, . . .	South Hanover, .	Fireman, .	Fireman, .	Limited.
Owen McEnany, . . .	South Hanover, .	Fireman, .	Fireman, .	Limited.
Daniel McLean, . . .	South Hanover, .	Fireman, .	Fireman, .	Limited.
John D. Sullivan, . .	Fall River, . .	Fireman, .	Fireman, .	-
James Ronan, . . .	Fall River, . .	Fireman, .	Fireman, .	-
John Burry, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Augusta C. A. Oliveria, .	Fall River, . .	Fireman, .	Fireman, .	-
David Fitzgerald, . . .	Fall River, . .	Fireman, .	Fireman, .	-*
Edward Baxter, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Martin Netesler, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Manuel Rigo, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
John Malone, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Joseph Hallbank, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Frank Sylvia, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Ralph King, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Chas. Murray, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Adam Moodie, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
John Fisher, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Fred Brown, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Dennis H. Harrington, .	Fall River, . .	Fireman, .	Fireman, .	Limited.
John Harrington, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Joseph Blair, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
William Marnock, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Thos. Murphy, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
John Wedan, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Daniel Welsh, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Joseph Kaze, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Calvin W. Harriman, . .	Fall River, . .	Fireman, .	Fireman, .	Janitor.
John Harrington, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Joseph Pausher, . . .	Fall River, . .	Fireman, .	Fireman, .	Limited.
Patrick Roach, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Patrick Tosney, . . .	Fall River, . .	Fireman, .	Fireman, .	-

* Janitor Border City school.

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Frank Dumas, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Limited.
John Holmes, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Edward Cotter, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Geo. H. Furze, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Samuel Liscomb, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
James I. Kiley, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
James Cleary, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Limited.
Peter Ingham, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Manuel Mitas, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Alexander Malone, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
James Flinn, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Limited.
Thos. McCormack, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Wm. Prince, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Chas. Wedeau, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Special.
Richard Tobin, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Special.
John Kinnane, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Patrick O'Brine, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
John Galvin, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Michael Lahey, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Timothy J. Sullivan, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Thomas Perry, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
James Kenney, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
William Harmon, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Timothy Sullivan, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Owen O'Hare, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Thos. McLarren, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Andrew J. Cox, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Thomas Chapman, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Limited.
Joseph Robinson, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Thos. Grogane, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Patrick Keeley, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
William Maner, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	Janitor.
Arthur Whittaker, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Maurice Manning, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Thos. Harkin, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Michael Noonan, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-
Daniel Courtney, . . .	Fall River, . . .	Fireman, . . .	Fireman, . . .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John Marrow, . . .	Fall River, .	Fireman, .	Fireman, .	-
Wm. H. Drake, . . .	Fall River, .	1st class, .	Fireman, .	Limited.
Wm. A. Martin, . . .	Fall River, .	Fireman, .	Fireman, .	-
John Westwell, . . .	Fall River, .	Fireman, .	Fireman, .	-
Thos. Hanly, . . .	Fall River, .	Fireman, .	Fireman, .	-
John Hawkyard, . . .	Fall River, .	Fireman, .	Fireman, .	-
Chas. Lough, . . .	Fall River, .	Fireman, .	Fireman, .	Limited.
Elles Shaw, . . .	Fall River, .	Fireman, .	Fireman, .	-
Paul Lapointe, . . .	Fall River, .	Fireman, .	Fireman, .	-
John Barry, . . .	Fall River, .	Fireman, .	Fireman, .	-
Patrick Melvin, . . .	Fall River, .	Fireman, .	Fireman, .	-
Manuel Eanus, . . .	Fall River, .	Fireman, .	Fireman, .	-
Joseph Landry, . . .	Fall River, .	Fireman, .	Fireman, .	-
Joseph Walcott, . . .	Fall River, .	Fireman, .	Fireman, .	-
Manuel Victorino, . . .	Fall River, .	Fireman, .	Fireman, .	Limited.
Thos. Burns, . . .	Fall River, .	Fireman, .	Fireman, .	-
William O'Brien, . . .	Fall River, .	Fireman, .	Fireman, .	-
Dennis Hogan, . . .	Fall River, .	Fireman, .	Fireman, .	-
Thos. Snowden, . . .	Fall River, .	Fireman, .	Fireman, .	-
John Green, . . .	Fall River, .	Fireman, .	Fireman, .	-
Thos. Cosgrove, . . .	Fall River, .	Fireman, .	Fireman, .	-
Samuel Croskrey, . . .	Fall River, .	Fireman, .	Fireman, .	-
Edward Stewart, . . .	Fall River, .	Fireman, .	Fireman, .	-
Moses Perry, . . .	Fall River, .	Fireman, .	Fireman, .	-
John Cummings, . . .	Fall River, .	Fireman, .	Fireman, .	-
James Premble, . . .	Fall River, .	Fireman, .	Fireman, .	-
John C. Judge, . . .	Fall River, .	Fireman, .	Fireman, .	-
Martin Breen, . . .	Fall River, .	Fireman, .	Fireman, .	-
Jonathan Olberenshaw, . . .	Fall River, .	Fireman, .	Fireman, .	-
Daniel L. Reagan, . . .	Fall River, .	Fireman, .	Fireman, .	-
Richard Golden, . . .	Fall River, .	Fireman, .	Fireman, .	-
Malachy Rogers, . . .	Fall River, .	Fireman, .	Fireman, .	-
Patrick Sawyer, . . .	Fall River, .	Fireman, .	Fireman, .	-
Patrick Higgins, . . .	Fall River, .	Fireman, .	Fireman, .	-
Michael Collins, . . .	Fall River, .	Fireman, .	Fireman, .	-
Arthur Roscoe, . . .	Fall River, .	Fireman, .	Fireman, .	-
Manuel Costa, . . .	Fall River, .	Fireman, .	Fireman, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Michael Kinnane, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jonathan Peel, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Richard Battie, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Daniel C. Harrington, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Geo. W. Morton, . . .	New Bedford, . . .	2d class, .	Fireman, .	Limited.
Patrick Conners, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jas. Roach, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Chas. Nelson, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Timothy Hurley, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Pierce Partridge, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
John Train, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Thos. Moores, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Murphy, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jas. Caulfield, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Chas R. Walker, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Martin Drury, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Michael Sullivan, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jeremiah Murphy, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jeremiah Murray, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Burns, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
D. H. Manchester, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Robert Mooney, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Henry Miller, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Bartlett Geland, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jas. Quarmley, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Murphy, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Kilroy, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Phydime Boivin, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Thos. Daley, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
John Conrey, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Judge, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Jas. Flanery, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
John Breen, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
John H. Coan, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Patrick Geagan, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Wrixsom Buckley, . . .	Fall River, . . .	Fireman, .	Fireman, .	-
Michael Shea, . . .	Fall River, . . .	Fireman, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Martin Breen, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Lawrence Dominican, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Joseph F. Dawson, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Garrett Folley, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Jas. Sutton, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Michael Mulcahy, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Michael McNamarra, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Hiram Frost, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Aime Hilbert, . . .	Fall River, . .	Fireman, .	Fireman, .	-
Manuel F. King, Jr., . . .	New Bedford, .	Fireman, .	Fireman, .	Limited.
Thos. Lyons, . . .	New Bedford, .	Fireman, .	Fireman, .	Limited.
Edward Quinn, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Henry Marco, . . .	New Bedford, .	Fireman, .	Fireman, .	-
James Reilly, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Manuel Viero, . . .	New Bedford, .	Fireman, .	Fireman, .	-
John O'Neil, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Geo. Kuttall, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Antonio Vicory, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Louis Boucher, . . .	New Bedford, .	Fireman, .	Fireman, .	-
William McDonald, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Chas. Conlon, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Arthur Linder, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Patrick H. Fay, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Fred Bollow, . . .	New Bedford, .	Fireman, .	Fireman, .	-
Chas. Edwards, . . .	New Bedford, .	1st class, .	3d class, .	-
William H. Wilson, . . .	New Bedford, .	1st class, .	3d class, .	-
James King, . . .	Fall River, . .	1st class, .	3d class, .	-
Chas. G. Bates, . . .	Hanover, . .	2d class, .	Special, .	-
John Silver, . . .	Fall River, . .	2d class, .	3d class, .	-
Henry Budrow, . . .	Fall River, . .	2d class, .	Special, .	-
Thos. Hill, . . .	Fall River, . .	1st class, .	3d class, .	-
Michael Loftus, . . .	Fall River, . .	2d class, .	3d class, .	-
Geo. J. Roberts, . . .	Fall River, . .	2d class, .	3d class, .	Granted under appeal.
Chas. C. Harvey, . . .	Avon, . .	2d class, .	3d class, .	-
Alexander Grundy, . . .	Fall River, . .	3d class, .	3d class, .	-
William Donald, . . .	Fall River, . .	Special, .	Special, .	-
Alfred Holden, . . .	Fall River, . .	1st class, .	3d class, .	-

Examination Report—Concluded.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Jas. M. Bow, . . .	Fall River, .	1st class, .	1st class, .	-
Fred L. French, . . .	Brockton, . .	1st class, .	-	Rejected.
Jorgen Todsen, . . .	Fall River, .	1st class, .	1st class, .	-
Jas. H. Jack, . . .	Fall River, .	1st class, .	1st class, .	-
Henry O. Foster, . . .	Fall River, .	1st class, .	1st class, .	-
Fred B. Colcord, . . .	Fall River, .	1st class, .	1st class, .	-
A. B. French, . . .	Fall River, .	1st class, .	1st class, .	-
Thos. McLarren, . . .	Fall River, .	1st class, .	1st class, .	-
Chas. K. Rossiter, . . .	Fall River, .	1st class, .	1st class, .	-
Isaac B. Thomas, Sr., . .	Fall River, .	1st class, .	1st class, .	-
Thomas Townsend, . . .	Fall River, .	1st class, .	1st class, .	-
Edward Higuey, . . .	Fall River, .	1st class, .	1st class, .	-
Edwin Gunn, . . .	Fall River, .	1st class, .	1st class, .	-

REPORT OF INSPECTOR WILSON.

District No. 3.

SIR:—I have the honor of submitting to you my annual report for the year 1895, to date. The inspection laws intrusted to me to enforce in District No. 3 have, with a few exceptions, been complied with.

I have met with considerable opposition in carrying out the provisions of the law. Such, I believe, is generally the case when new laws are being enforced. It has been impossible for me to perform all the duties incumbent upon my office. The inspection of boilers in itself is more than one person can do for District 3. Add to this the examining of all the engineers and firemen, together with the vast amount of clerical work necessary, and it must be conceded that additional force is needed to perform the duties incumbent upon this office.

I have received many favors and instructions from officers Dyson, Abbott and Murray (district police officers), for which I am very grateful.

In the month of July much time was given to answering letters and questions, and giving such information relating to the law as I could. Very few of the many towns in Worcester County have as yet been visited by me to inspect boilers or examine engineers

and firemen for licenses. The license law is having a good effect with engineers and firemen; they are waking up to the fact that in order to hold good positions they must in many ways be better qualified. Generally the law is spoken of as being one of the best and most needed that has passed the Legislature for many years.

I have observed a remarkable difference in the care and condition of boilers. In apartment houses the boilers in many cases are in poor condition and are not properly cared for. The hotels are next in poor condition. The small steam plants in factories or mills where there is no regular engineer or fireman are next in order; of this class there are many. Large steam plants, where a competent engineer is employed, I find generally in good condition. Public buildings are of the first class, and are generally in the care of reliable and trustworthy persons.

Following is a detailed and tabulated report for the year ending Oct. 26, 1895:—

Summary of Examinations.

	Applications Received.	Applicants Examined.	Licenses Granted.	Licenses Refused.
First class,	239	83	46	1
Second class,	252	69	60	1
Third class,	524	127	102	—
Special,	263	52	152	1
Fireman,	649	267	225	3
Hoisting,	10	3	10	—
	1,937	601	595	6

Summary of Inspections.

Boilers inspected,	65
Number of defects found,	49
Number of defects dangerous,	8
Boilers ordered repaired,	12
Boilers condemned,	2

Boiler Inspection Report.

DISTRICT No. 3.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Athol.					
J. J. Arnot,	Wood-working, . .	3	-	Four new tubes; fusible plug refilled; back head fixed to hold hand-hole plate tight.	Complied.
L. Saunders & Co., . .	Wood-working, . .	-	-	None,	-
Charles M. Lee,	Shoe manufacturing, .	-	-	None,	-
Charles M. Lee,	Shoe manufacturing, .	-	-	None,	-
F. R. Davis,	Electric power and light,	1	-	New fusible plug,	Complied.
C. F. Richardson & Son, .	Machine shop, . . .	-	-	None,	-
John C. Stone,	Hotel,	-	-	None,	-
F. R. Davis,	Electric power and light,	1	-	New fusible plug,	Complied.
Alpheus Harding,	Banking and offices, .	-	-	None,	-
Fitchburg.					
Henry G. Taft,	County court house, .	3	3	Condemned,	-
B. D. Dwinell,	County jail,	-	-	None,	-
Armory, M. V. M.,	Armory,	-	-	None,	-
Fitchburg Athletic Club, .	Athletic club, . . .	-	-	None,	-
E. M. Dickenson,	Shoe manufacturing, .	-	-	None,	-

Boiler Inspection Report — Continued.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Fitchburg — Concluded.					
G. M. Park,	Machine and office rooms,	1	-	New fusible plug,	Complied.
Andrew Whitney,	Opera house,	3	2	Condemned,	-
B. D. Dwinell,	County jail,	1	-	None,	-
Unitarian Society,	Church,	-	-	None,	-
First M. E. Church,	Church,	-	-	None,	-
Otter River.					
C. B. Snyder,	Manufacturing purposes,	-	-	None,	-
Worcester.					
R. C. Taylor,	Opera house,	3	-	None,	-
Stephen Salisbury,	Heating purposes,	4	-	Safety valve weights to be changed for lighter ones,	Complied.
Stephen Salisbury,	Heating purposes,	3	-	Safety valve weight to be changed for a lighter one,	Complied.
L. D. Thayer,	Manufacturing purposes,	3	-	Larger escape pipe for safety valve; new steam pressure gauge; the safety valve repaired.	Complied.
Ella A. McClellan,	Store and apartments,	-	-	None,	-
Worcester Academy,	School building,	1	-	New pressure gauge,	Complied.
Worcester Academy,	Dining room,	-	-	None,	-
Worcester Academy,	Dormitory,	-	-	None,	-

Boiler Inspection Report—Concluded.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Worcester — Concluded.					
J. M. Rice,	Apartment house, . .	1	—	None,	—
Stephen Salisbury,	Mill purposes,	—	—	None,	—
Stephen Salisbury,	Mill purposes,	—	—	Larger safety valve,	Complied.
Stephen Salisbury,	Mill purposes,	2	1	New set of tubes; larger safety valve,	Complied.
Stephen Salisbury,	Mill purposes,	1	—	None,	—
W. W. & A. Bartlett,	Mill purposes,	—	—	None,	—
Catholic Church,	Church,	1	—	None,	—

Examination Report.

DISTRICT No. 3.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
C. S. Amsden, . . .	Athol, . . .	Engineer, .	2d class, .	-
James W. Anthony, . . .	Athol, . . .	Fireman, .	Fireman, .	-
Clarence H. Burt, . . .	Athol, . . .	2d class, .	2d class, .	-
George W. Boutell, . . .	Athol, . . .	Fireman, .	Special fireman.	-
Wm. Brown, . . .	Athol, . . .	3d class, .	Hoisting, .	-
Frank Davis, . . .	Athol, . . .	3d class, .	-	Rejected.
H. L. Doane, . . .	Athol, . . .	Engineer, .	Special, .	-
G. M. Garry, . . .	Athol, . . .	Engineer, .	Special, .	-
Edward E. Gibson, . . .	Athol, . . .	3d class, .	Special, .	-
H. S. Goddard, . . .	Athol, . . .	Special, 2d class.	Special, .	-
Harry M. Hackett, . . .	Athol, . . .	Engineer and fireman.	2d class, .	-
A. H. Jefts, . . .	Athol, . . .	2d class, .	2d class, .	-
Addison Moore, . . .	Athol, . . .	Special, 2d class.	2d class, .	-
Alexis Mercanter, . . .	Athol, . . .	Engineer and fireman.	2d class, .	-
J. H. McDonald, . . .	Athol, . . .	1st class, .	1st class and special.	-
John V. C. McDonald, . . .	Athol, . . .	2d class, .	Special, .	-
Edward Mahogany, . . .	Athol, . . .	2d class, .	2d class, .	-
George McKnight, . . .	Athol, . . .	1st class, .	Special, .	-
J. A. McIntosh, . . .	Athol, . . .	Special eng and fireman.	Special, .	-
Edward McCarty, . . .	Athol, . . .	Engineer and fireman.	Special, .	-
Pat. Quinlan, . . .	Athol, . . .	Engineer and fireman.	Special fireman.	-
Fred B. Richardson, . . .	Athol, . . .	3d class, .	3d class, .	-
W. E. Reynolds, . . .	Athol, . . .	Engineer, .	Special, .	-
W. H. Sleeper, . . .	Athol, . . .	1st class, .	1st class, .	-
Henry E. Snow, . . .	Athol, . . .	Engineer, .	2d class, .	-
George D. Sturtevant, . . .	Athol, . . .	Engineer and fireman.	2d class, .	-
Lewis Sedgwick, . . .	Athol, . . .	Fireman, .	Fireman, .	-
George H. Searles, . . .	Athol, . . .	2d class, .	2d class, .	-
A. H. M. Tyler, . . .	Athol, . . .	Special, .	Special, .	-
J. H. Toomey, . . .	Athol, . . .	3d class and fireman.	3d class, .	-
Frank O. Tay, . . .	Athol, . . .	Engineer, .	3d class, .	-
Joshua Tolman, . . .	Athol, . . .	Engineer, .	3d class, .	-
John E. Wilkinson, . . .	Athol, . . .	Special, 3d class.	Special, 3d class.	-
Irving L. Wood, . . .	Athol, . . .	2d class, .	Special, .	-
Rufus E. Whitney, . . .	Athol, . . .	Engineer and fireman.	3d class, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Abram Tatro, . . .	Athol, . . .	Fireman, .	Special, .	-
Frank Simonds, . . .	Athol, . . .	Fireman, .	Special fire- man.	-
Lucius Gilman, . . .	Athol, . . .	Fireman, .	Special fire- man.	-
Patrick Collanon, . . .	Auburn, . . .	Engineer, .	Special, .	-
C. H. Cain, . . .	Ashburnham, .	Fireman, .	Fireman, .	-
Charles A. Packard, . . .	Ashburnham, .	2d class, .	3d class, .	-
C. E. Larsen, . . .	Ashburnham, .	2d class, .	Special, .	-
Charles A. Newell, . . .	Ashburnham, .	2d class, .	Special, .	-
Moses Booth, . . .	Blackstone, .	1st class, .	1st class, .	-
E. E. Robbins, . . .	Baldwinville, .	1st class, .	Special, .	-
Judson S. Jewett, . . .	Baldwinville, .	2d class, .	Special, .	-
Lewis J. Bordwin, . . .	Baldwinville, .	1st class, .	2d class, .	-
Jeremiah McCarty, . . .	Clinton, . . .	Engineer, .	2d class, .	-
T. S. Davis, . . .	Clinton, . . .	1st class, .	1st class, .	-
Samuel Jackson, . . .	Clinton, . . .	Engineer, .	3d class, .	-
E. C. Osgood, . . .	Clinton, . . .	Special fire- man.	Special fire- man.	-
Anthony Barrett, . . .	Clinton, . . .	Fireman, .	Fireman, .	-
Eugene E. Woodward, . . .	Clinton, . . .	2d class, .	3d class, .	-
W. E. Grover, . . .	Charlton, . . .	Engineer, .	3d class, .	-
George H. Barrett, . . .	Fitchburg, . .	Fireman, .	Special fire- man.	-
S. E. Balcom, . . .	West Fitchburg, .	1st class, .	2d class, .	-
John T. Burk, . . .	Fitchburg, . .	Fireman, .	Special fire- man.	-
Theodore Burrell, . . .	Fitchburg, . .	Fireman, .	Special fire- man.	-
George Bryce, . . .	Fitchburg, . .	Fireman, .	Special fire- man.	-
J. M. Baldwin, . . .	Fitchburg, . .	Engineer, .	Special, .	-
Charles A. Baldwin, . . .	Fitchburg, . .	Fireman, .	Fireman, .	-
Henry Behrens, . . .	Fitchburg, . .	Fireman, .	Fireman, .	-
Edward L. Bemis, . . .	Fitchburg, . .	1st class, .	1st class, .	-
Frank L. Blodgett, . . .	Fitchburg, . .	Fireman, .	Fireman, .	-
Charles F. Blodgett, . . .	Fitchburg, . .	1st class, .	1st class, spe- cial.	-
Alexander Baker, . . .	Fitchburg, . .	Fireman, .	3d class, .	-
William Burk, . . .	Fitchburg, . .	Special, .	Special, .	-
E. L. Barrows, . . .	West Fitchburg, .	Fireman, .	Fireman, .	-
James Butler, . . .	West Fitchburg, .	Fireman, .	Fireman, .	-
Harry L. Chapman, . . .	Fitchburg, . .	Fireman, .	Fireman, .	-
John M. Cunningham, . . .	Fitchburg, . .	1st class, .	3d class, .	-
W. A. Chase, . . .	Fitchburg, . .	Fireman, .	Fireman, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John Collins,	West Fitchburg,	Fireman, .	Fireman, .	-
Cornelius J. Cronin, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
E. L. Cook,	Fitchburg, . . .	2d class, .	Special, .	-
H. M. Coates,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Marshall R. Coolidge, . . .	Fitchburg, . . .	Fireman, .	Special fire- man.	-
James Cox,	West Fitchburg,	Fireman, .	Fireman, .	-
Edward Coulter,	West Fitchburg,	Fireman, .	Fireman, .	-
H. B. Chace,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Joseph Croto,	Fitchburg, . . .	Fireman, .	Fireman, .	-
S. W. Chesbrough,	South Fitchburg,	Fireman, .	Fireman, .	-
Frank X. Ducharme,	Fitchburg, . . .	Special, .	Special, .	-
George F. Dailey,	Fitchburg, . . .	2d class, .	3d class, .	-
Thomas Daley,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Joseph Dufort,	Fitchburg, . . .	Special, .	Special, .	-
Thomas Darch,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Herbert Dickenson,	Fitchburg, . . .	Fireman, .	Fireman, .	-
W. C. Foote,	Fitchburg, . . .	Fireman, .	Special fire- man.	-
George B. Foskett,	Fitchburg, . . .	Fireman, .	Special fire- man.	-
Cyrus A. Foster,	Fitchburg, . . .	1st class, .	Special fire- man.	-
James H. Fenton,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Job T. Ferris,	Fitchburg, . . .	3d class, .	3d class, .	-
Adelman Z. Fortier,	Fitchburg, . . .	3d class, .	3d class, .	-
Abel Fox,	Fitchburg, . . .	Fireman, .	Fireman, .	-
A. W. Field,	Fitchburg, . . .	Engineer, .	3d class, .	-
Herbert L. Foster,	Fitchburg, . . .	Engineer, .	Special, .	-
James Gorman,	Fitchburg, . . .	Fireman, .	Fireman, .	-
John Gillan,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Mathew J. Gray,	Fitchburg, . . .	Special fire- man.	Special fire- man.	-
Henry Germain,	West Fitchburg,	Fireman, .	Fireman, .	-
W. H. Grout,	Fitchburg, . . .	Engineer and fireman.	Special fire- man.	-
Moses Gokey,	Fitchburg, . . .	Fireman, .	Special fire- man.	-
James Grant,	West Fitchburg,	Fireman, .	Fireman, .	-
Wm. H. Hall,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Perley E. Henry,	West Fitchburg,	Fireman, .	Special fire- man.	-
L. F. Haynes,	Fitchburg, . . .	2d class, .	3d class, .	-
Archibald Hall, Jr.,	Fitchburg, . . .	1st class, .	1st class, .	-
George O. Hutchins,	Fitchburg, . . .	2d class, .	Fireman, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Patrick Hackett, . . .	Fitchburg, . . .	1st class, .	1st class, .	-
W. R. Holton, . . .	Fitchburg, . . .	Engineer and fireman.	2d class, .	-
James Hughes, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Edward Hebert, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
James Isaac, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Henry Jenkins, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Edward Joyce, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Stephen Kellcher, . . .	Fitchburg, . . .	Fireman, .	Special fireman.	-
Frank H. Knowlton, . . .	Fitchburg, . . .	3d class, .	Hoisting, .	-
Samuel H. Kingston, . . .	Fitchburg, . . .	Engineer and fireman.	Special eng. and fireman.	-
P. H. Kilmartin, . . .	Fitchburg, . . .	Engineer and fireman.	Special, .	-
Jerry Keating, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Ernest Lind, . . .	Fitchburg, . . .	Special eng. and fireman.	Fireman, .	-
Nazaire Lamothe, . . .	Fitchburg, . . .	3d class, .	Special, .	-
G. H. Lewis, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Charles Loyd, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
John Lyons, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Patrick Lally, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Frank S. Lynch, . . .	Fitchburg, . . .	Engineer and fireman.	3d class, .	-
Solomon Legnard, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
George H. Lawrence, . . .	Fitchburg, . . .	2d class, .	Special, .	-
Thomas Laundry, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Wm. F. Moore, . . .	Fitchburg, . . .	1st class, .	1st class, .	-
George E. Marshall, . . .	Fitchburg, . . .	2d class, .	3d class, .	-
James Madigan, . . .	Fitchburg, . . .	Special, .	Special, .	-
Albert H. Moore, . . .	Fitchburg, . . .	1st class, .	1st class, .	-
F. W. Munroe, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
John McKichnie, . . .	Fitchburg, . . .	2d class, .	3d class, .	-
Edward McElroy, . . .	Fitchburg, . . .	Special fireman.	Special fireman.	-
George F. Meacham, . . .	Fitchburg, . . .	2d class, .	Special, .	-
Edwin Mair, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Joseph Normandie, . . .	Fitchburg, . . .	1st class, .	-	Rejected.
Crosby W. Nutting, . . .	Fitchburg, . . .	1st class, .	Special, .	-
James Newcomb, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Patrick O'Hara, . . .	West Fitchburg,	Fireman, .	Fireman, .	-
Edward O'Connor, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
L. R. Pierce, . . .	Fitchburg, . . .	1st class, .	1st class, .	-

Examination Report—Continued.

NAME.	City or Town	License Applied for.	Class of License Granted.	Remarks.
George H. Phelps, . .	Fitchburg, . .	Fireman, .	Fireman, .	-
Albert H. Perkins, . .	West Fitchburg,	Fireman, .	Fireman, .	-
Lazare Richard, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Patrick Prendergast, . .	West Fitchburg,	Fireman, .	Fireman, .	-
Charles H. Rose, . . .	Fitchburg, . . .	2d class, .	2d class, .	-
M. Rahan,	Fitchburg, . . .	2d class, .	-	Rejected.
John F. Rice,	Fitchburg, . . .	Engineer and fireman.	2d class, .	-
David Russell,	West Fitchburg,	Fireman, .	Fireman, .	-
George S. Richardson, . .	Fitchburg, . . .	2d class, .	2d class, .	-
Thomas W. Reynolds, . .	Fitchburg, . . .	Fireman, .	Special, .	-
Edward W. Rogers, . . .	Fitchburg, . . .	3d class, .	3d class, .	-
Lewis C. Robinson, . . .	Fitchburg, . . .	Fireman, .	Special fireman.	-
Peter Russell,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Norman A. Slade,	Fitchburg, . . .	3d class, .	Special fireman.	-
David H. Sweeney, . . .	Fitchburg, . . .	Fireman, .	Special fireman.	-
James F. Small,	Fitchburg, . . .	Fireman, .	Fireman, .	-
C. P. Stone,	Fitchburg, . . .	1st class, .	1st class, .	-
Edward Stanton,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Thomas Snell,	West Fitchburg,	Fireman, .	Fireman, .	-
David W. Smith,	Fitchburg, . . .	2d class, .	3d class, .	-
Thomas Shea,	West Fitchburg,	Fireman, .	Fireman, .	-
Wm. J. Stitt,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Richard F. Smith,	Fitchburg, . . .	1st class, .	1st class, .	-
Harry Simms,	Fitchburg, . . .	1st class, .	3d class, .	-
George F. Smith,	Fitchburg, . . .	3d class, .	Special, .	-
Wm. Stedeford,	West Fitchburg,	Fireman, .	Fireman, .	-
John B. Shattuck,	Fitchburg, . . .	3d class, .	Hoisting, .	-
George A. Terrell,	Fitchburg, . . .	Special, .	Hoisting, .	-
E. H. Whittemore,	Fitchburg, . . .	Fireman, .	Special fireman.	-
John Woolacott,	Fitchburg, . . .	Special, .	Special, .	-
James H. Wood,	South Fitchburg,	Fireman, .	Fireman, .	-
Charles S. Warner,	West Fitchburg,	Special, .	Special, .	-
John E. Woodward,	Fitchburg, . . .	Fireman, .	Fireman, .	-
Frederick Woodcome, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Robert Wenderlich,	West Fitchburg,	Fireman, .	Fireman, .	-
Matthew J. Gray,	Fitchburg, . . .	Special fireman.	Fireman, .	-
Philip Brunnell,	West Fitchburg,	Fireman, .	Special fireman.	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
George M. Cleary, . . .	South Fitchburg,	Special, .	1st class, .	-
Michael Sullivan, . . .	South Fitchburg,	Fireman, .	Fireman, .	-
Charles Mullen, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Charles Down, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
C. A. Sargent, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Wm. Cleary, . . .	Fitchburg, . . .	Special, .	Special, .	-
Michael Donahue, . . .	Fitchburg, . . .	Special, .	Special, .	-
Michael Mullahy, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Edmond O'Connor, . . .	Fitchburg, . . .	2d class, .	Special, .	-
Edward B. Wright, . . .	Fitchburg, . . .	Special, .	Special eng. and fireman.	-
Adin Vose, . . .	South Fitchburg,	Engineer, .	Special, .	-
Henry Wolter, . . .	Fitchburg, . . .	Fireman, .	Fireman, .	-
Wm. M. Roper, . . .	East Hubbardston.	Engineer, .	Special, 3d class.	-
L. A. Joslin, . . .	Hubbardston, .	Engineer, .	3d class, .	-
Harry Crowell, . . .	East Princeton, .	Engineer, .	-	Rejected.
W. H. Bracewell, . . .	Fiskdale, . . .	1st class, .	1st class, .	-
Edward McDonough, . . .	Gardner, . . .	1st class, .	Special, .	-
John Landers, . . .	West Gardner, .	Fireman, .	Fireman, .	-
James Moran, . . .	Gardner, . . .	Fireman, .	Fireman, .	-
Henry Phillips, . . .	Greenville, . . .	Fireman, .	Fireman, .	-
Negrotty Giovanni, . . .	Hopedale, . . .	Special, .	Special, .	-
Wm. H. Barney, . . .	Hopedale, . . .	Special, .	Special, .	-
Patrick Fox, . . .	Jefferson, . . .	Fireman, .	Fireman, .	-
George H. Munroe, . . .	Leicester, . . .	Fireman, .	Special fireman.	-
H. W. Munroe, . . .	Leicester, . . .	Fireman, .	Special fireman.	-
G. A. Vinton, . . .	Leicester, . . .	1st class, .	1st class, .	-
John Burns, . . .	Leominster, . . .	Special, .	Special eng. and fireman.	-
Herbert A. Brooks, . . .	Leominster, . . .	2d class, .	3d class, .	-
Leonard C. Brown, . . .	Leominster, . . .	Special, .	Special, .	-
Simeon Bird, . . .	North Leominster.	Fireman, .	Fireman, .	-
C. I. Courey, . . .	Leominster, . . .	Fireman, .	3d class, .	-
Amasa Farrier, . . .	Leominster, . . .	Engineer and fireman.	2d class, .	-
Frank P. Field, . . .	Leominster, . . .	1st class, .	1st class, .	-
Herbert M. Lewis, . . .	Leominster, . . .	1st class, .	1st class, .	-
Paul J. Ladoo, . . .	Leominster, . . .	2d class, .	3d class, .	-
Daniel McCabe, . . .	North Leominster.	Fireman, .	Fireman, .	-
John McGuire, . . .	Leominster, . . .	Fireman, .	Fireman, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
James J. Scanlon, . . .	Leominster, . .	Engineer, .	2d class, .	-
F. S. Stickney, . . .	Leominster, . .	2d class, .	3d class, .	-
David H. Matthews, . .	North Lancaster, .	Fireman, .	Fireman, .	-
Joseph Frazier, . . .	Millbury, . . .	Engineer and fireman.	Fireman, .	-
Jeremiah D. Kelleher, .	Millbury, . . .	Special, .	Special, .	-
Henry T. Merriam, . .	Millbury, . . .	Engineer, .	Special, .	-
A. M. Stone,	Millbury, . . .	Engineer, .	Special, .	-
James Scott,	Millbury, . . .	Engineer, .	Special, .	-
Wm. J. Galvin,	Millbury, . . .	Fireman, .	Special and fireman.	-
W. F. Holman,	Millbury, . . .	1st class, .	1st class, .	-
James Bowes,	Northborough, .	2d class, .	3d class, .	-
M. R. Jewett,	Northbridge, . .	1st class, .	Special, .	-
E. E. Abbott,	NorthBrookfield, .	Engineer and fireman.	3d class, .	-
Leon Boucher,	NorthBrookfield, .	3d class, .	Special, .	-
J. G. Hart,	NorthBrookfield, .	3d class, .	3d class, .	-
W. G. Mandell,	West Brookfield, .	1st class, .	2d class, .	-
Jean Gilbert,	West Brookfield, .	3d class, .	3d class, .	-
James Dickson,	North Grafton, .	Engineer, .	Fireman, .	-
Amory Aldrich,	North Oxford, . .	2d class, .	Fireman, .	-
Henry Brazeal,	North Oxford, . .	Fireman, .	Fireman, .	-
Joseph Lyman,	North Oxford, . .	2d class, .	3d class, .	-
Mitchell Laplant, . . .	North Oxford, . .	Engineer and fireman.	Fireman, .	-
Mitchell W. Russell, . .	North Oxford, . .	Fireman, .	Fireman, .	-
F. M. Stafford,	North Oxford, . .	Fireman, .	Fireman, .	-
Wm. A. Stafford,	North Oxford, . .	Engineer, .	Special, .	-
Stephen C. Saunders, . .	North Uxbridge, .	2d class, .	2d class, .	-
John Pearson,	North Uxbridge, .	1st class, .	2d class, .	-
Burton B. Pierce, . . .	Uxbridge, . . .	Engineer, .	2d class, .	-
Wm. Smith,	Oakdale, . . .	2d class, .	2d class, .	-
Walter S. Dockham, . .	Otter River, . .	Special, .	Special, .	-
James B. Kelley,	Otter River, . .	Fireman, .	Special fire- man.	-
M. E. Hubbard,	Quinapoxet, . .	2d class, .	Special, .	-
John Ducey,	Rochdale, . . .	3d class, .	Special, .	-
Erwin M. Hunt,	Rochdale, . . .	Fireman, .	Fireman, .	-
R. H. Newton,	Rochdale, . . .	Fireman, .	Special fire- man.	-
Frank Camwell,	Rochdale, . . .	Fireman, .	Fireman, .	-
John P. Phillips,	Rochdale, . . .	1st class, .	2d class, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Oscar Pawlowsky, . . .	Southbridge, .	Engineer, .	Special, .	-
John Carr,	Spencer, . .	Fireman, .	Special fireman.	-
Frank X. Gaucher, . . .	Spencer, . .	2d class, .	3d class, .	-
M. C. Mannion,	Spencer, . .	Engineer, .	3d class, .	-
Lewis Hill,	Spencer, . .	2d class, .	2d class, .	-
Alexander McCrea, . . .	Sutton, . .	Engineer, .	Special, .	-
George H. Richards, . . .	Waterville, .	3d class, .	3d class, .	-
Prescott G. Brown, . . .	Webster, . .	Fireman, .	Fireman, .	-
Bernhard F. Miller, . . .	Webster, . .	Fireman, .	Fireman, .	-
George Beaudreau, . . .	West Boylston, .	Special fireman.	Special fireman.	-
J. V. Campeau,	West Boylston, .	Special fireman.	Special fireman.	-
Wm. C. Ovenden,	West Boylston, .	1st class, .	1st class, .	-
Henry T. Buck,	West Sterling, .	3d class, .	3d class, .	-
Arba Avery,	Whitinsville, .	2d class, .	Special, .	-
Eldorus Murdock, . . .	Whitinsville, .	Special, .	Special, .	-
Charles E. Trobridge, . . .	Whitinsville, .	3d class, .	Special, .	-
Henry King,	Whitinsville, .	Fireman, .	Fireman, .	-
George Anderson,	Whitinsville, .	Fireman, .	Fireman, .	-
Alonzo Newton,	Winchendon, .	Fireman, .	Fireman, .	-
G. W. Tarbell,	Winchendon, .	Fireman, .	Fireman, .	-
J. A. Sawyer,	Winchendon, .	Engineer, .	3d class, .	-
David McMullin,	Winchendon, .	Fireman, .	Fireman, .	-
Thomas S. Lawrence, . . .	Winchendon, .	Fireman, .	Fireman, .	-
Philander A. Angeer, . . .	Westborough, .	Engineer and fireman.	Special, .	-
Charles S. Chamberlain, .	Westborough, .	2d class, .	2d class, .	-
Frederick Demers, . . .	Westborough, .	1st class, .	1st class, .	-
John Henry,	Westborough, .	Fireman, .	Fireman, .	-
A. A. Maxfield,	Westborough, .	Special, .	Special, .	-
John McDonald,	Westborough, .	Fireman, .	Fireman, .	-
Moses Dusoe,	Westborough, .	2d class, .	3d class, .	-
S. S. Wentzel,	Westborough, .	Fireman, .	Fireman, .	-
George Spring,	Westborough, .	3d class, .	3d class, .	-
Robert Ash,	Worcester, .	Fireman, .	Fireman, .	-
Wm. Allen,	Worcester, .	Hoisting, .	Hoisting, .	-
J. H. Allen,	Worcester, .	2d class, .	2d class, .	-
Redford E. Adams, . . .	Worcester, .	Engineer, .	3d class, .	-
N. W. Anderson,	Worcester, .	2d class eng. and fireman.	3d class, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
F. D. Bliss,	Worcester, .	Fireman, .	Fireman, .	-
J. G. Bergenstoole, . . .	Worcester, .	1st class, .	2d class, .	-
Walter C. Brown, . . .	Worcester, .	1st class, .	1st class, .	-
Richard Brown,	Worcester, .	Engineer and fireman.	3d class, .	-
Anson M. Blemus, . . .	Worcester, .	3d class, .	3d class, .	-
Thomas Brown,	Worcester, .	Fireman, .	Special fire- man.	-
W. E. Barney,	Worcester, .	Engineer and fireman.	3d class, .	-
Fred Bennett,	Worcester, .	2d class, .	3d class, .	-
George W. Blake, . . .	Worcester, .	Special, .	Special, .	-
Wm. P. Barnes,	Worcester, .	2d class, .	2d class, .	-
Frank D. Brackett, . . .	Worcester, .	1st class, .	1st class, .	-
A. L. Bush,	Worcester, .	Engineer, .	1st class, .	-
Abel Buckley,	Worcester, .	Fireman, .	Fireman, .	-
George W. Blake, . . .	Worcester, .	2d class, .	2d class, .	-
Eugene Beauregard, . . .	Worcester, .	Engineer, .	-	Rejected.
Michael Brannon, . . .	Worcester, .	Fireman, .	Fireman, .	-
John Barnard,	Worcester, .	2d class, .	3d class, .	-
John Barr,	Worcester, .	Fireman, .	Fireman, .	-
R. M. Bucklin,	Worcester, .	Fireman, .	Fireman, .	-
George A. Brown, . . .	Worcester, .	Fireman, .	Fireman, .	-
Charles H. L. Barrett, . .	Worcester, .	1st class, .	2d class, .	-
Samuel F. Barnes, . . .	Worcester, .	Fireman, .	Fireman, .	-
Lewis N. Brownell, . . .	Worcester, .	Fireman, .	Fireman, .	-
Carl A. Benson,	Worcester, .	1st class, .	3d class, .	-
G. H. Bullard,	Worcester, .	Fireman, .	Fireman, .	-
John O. Benneburk, . . .	Worcester, .	Fireman, .	Fireman, .	-
James B. Butler,	Worcester, .	Fireman, .	Fireman, .	-
Edward T. Bliss,	Worcester, .	2d class, .	3d class, .	-
Herbert Butters,	Worcester, .	Fireman, .	Fireman, .	-
Dennis Cronin,	Worcester, .	Fireman, .	Fireman, .	-
Gideon L. Comtois, . . .	Worcester, .	3d class, .	3d class, .	-
Thomas Corregan, . . .	Worcester, .	Fireman, .	Fireman, .	-
J. Alfred Corrideau, . . .	Worcester, .	Fireman, .	3d class, .	-
Hiram Clark,	Worcester, .	Engineer, .	3d class, .	-
Charles Crought,	Worcester, .	Fireman, .	Special fire- man.	-
Patrick Cronin,	Worcester, .	Fireman, .	Fireman, .	-
Byron E. Corey,	Worcester, .	Fireman, .	Special fire- man.	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John P. Carroll, . . .	Worcester,	Fireman,	Fireman,	-
Dennis Cronin, . . .	Worcester,	Fireman,	Fireman,	-
Daniel Coonan, . . .	Worcester,	Fireman,	Fireman,	-
James Cumiskey, . . .	Worcester,	Hoisting,	Hoisting,	-
Hugh Difley, . . .	Worcester,	1st class,	1st class,	-
Alfred W. Dorr, . . .	Worcester,	2d class,	3d class,	-
Adelard Bernard, . . .	Worcester,	3d class,	3d class,	-
Humphrey Donahue, . .	Worcester,	Fireman,	Fireman,	-
John Deady, . . .	Worcester,	Special,	Special, 3d class.	-
Frank H. Doherty, . .	Worcester,	Engineer,	2d class,	-
Robert Dunn, . . .	Worcester,	Fireman,	Fireman,	-
Mark Daley, . . .	Worcester,	Fireman,	Fireman,	-
Thomas Davis, . . .	Worcester,	1st class,	Special,	-
Patrick Dwyer, . . .	Worcester,	Fireman,	Fireman,	-
Martin Drohan, . . .	Worcester,	Fireman,	Fireman,	-
Timothy Duggan, . . .	Worcester,	Fireman,	Special,	-
C. L. Dodge, . . .	Worcester,	2d class,	3d class,	-
Edward M. Dodge, . . .	Worcester,	Fireman,	Special fireman.	-
Joseph Edwards, . . .	Worcester,	3d class,	3d class,	-
Bamford Elliott, . . .	Worcester,	2d class,	3d class,	-
George B. Edwards, . .	Worcester,	2d class,	3d class,	-
Wm. W. Earle, . . .	Worcester,	3d class,	2d class,	-
Wm. H. Fletcher, . . .	Worcester,	1st class,	1st class,	-
Charles Farmer, . . .	Worcester,	Fireman,	Fireman,	-
Charles H. Fenner, . .	Worcester,	1st class,	2d class,	-
John J. Farnon, . . .	Worcester,	Fireman,	Fireman,	-
George E. French, . . .	Worcester,	3d class,	3d class,	-
J. P. Fryberg, . . .	Worcester,	Fireman,	Fireman,	-
W. H. Farnsworth, . .	Worcester,	1st class,	Special,	-
Joseph Forest, . . .	Worcester,	1st class,	3d class,	-
Henry E. Guello, . . .	Worcester,	2d class,	3d class,	-
E. E. Granger, . . .	Worcester,	1st class,	2d class,	-
Thomas H. Gilliatt, . .	Worcester,	Fireman,	Special fireman.	-
Amade Godaire, . . .	Worcester,	Special,	Special,	-
Thomas H. Gibson, . .	Worcester,	1st class,	1st class,	-
Peter Golden, . . .	Worcester,	Fireman,	Fireman,	-
E. J. Gilbert, . . .	Worcester,	1st class,	1st class,	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Patrick Gallagher, . .	Worcester, .	Fireman, .	Fireman, .	-
Charles Grauskog, . .	Worcester, .	Fireman, .	Special fire- man.	-
R. C. Holbrook, . . .	Worcester, .	Fireman, .	Fireman, .	-
C. W. Hewins, . . .	Worcester, .	2d class, .	3d class, .	-
John E. Healey, . . .	Worcester, .	Engineer and fireman.	3d class, .	-
James E. Healey, . . .	Worcester, .	Engineer, .	3d class, .	-
Robert Hammond, . .	Worcester, .	Engineer, .	Fireman, .	-
Frank Hubert, . . .	Worcester, .	Fireman, .	Fireman, .	-
Wm. E. Haskins, . . .	Worcester, .	1st class, .	1st class, .	-
John Hickey, . . .	Worcester, .	Fireman, .	Fireman, .	-
Charles A. Hackett, . .	Worcester, .	Fireman, .	Fireman, .	-
Wm. Hardaker, . . .	Worcester, .	Fireman, .	Special fire- man.	-
Edward E. Houghton, . .	Worcester, .	Fireman, .	Fireman, .	-
Fred L. Harthan, . . .	Worcester, .	Fireman, .	Fireman, .	-
Patrick Hagerty, . . .	Worcester, .	Fireman, .	Fireman, .	-
Gustaf A. Hakenson, . .	Worcester, .	1st class, .	Special, .	-
Nils Holm, . . .	Worcester, .	Fireman, .	Fireman, .	-
Jason Hirtle, . . .	Worcester, .	Fireman, .	Special fire- man.	-
J. G. Johnson, . . .	Worcester, .	1st class, .	1st class, .	-
Amastead Jackson, . .	Worcester, .	Special, .	3d class, .	-
Louis Joslin, . . .	Worcester, .	Engineer, .	3d class, .	-
Walter Jameson, . . .	Worcester, .	Fireman, .	Special fire- man.	-
L. A. Joslin, . . .	Worcester, .	Engineer, .	3d class, .	-
George Jarman, . . .	Worcester, .	Fireman, .	Fireman, .	-
C. A. Johnson, . . .	Worcester, .	3d class, .	Special, .	-
Charles Johnson, . . .	Worcester, .	Fireman, .	Fireman, .	-
Michael J. Kelleher, . .	Worcester, .	3d class, .	3d class, .	-
John Kelley, . . .	Worcester, .	Fireman, .	Fireman, .	-
Arthur W. Knight, . .	Worcester, .	Fireman, .	Fireman, .	-
Martin Kane, . . .	Worcester, .	Engineer, .	3d class, .	-
G. W. Knowles, . . .	Worcester, .	Fireman, .	Fireman, .	-
Daniel Kinsley, . . .	Worcester, .	Fireman, .	Special fire- man.	-
John E. Littleton, . .	Worcester, .	1st class, .	1st class, .	-
William E. Lane, . . .	Worcester, .	Engineer, .	3d class, .	-
Joseph Lonzo, . . .	Worcester, .	Fireman, .	Fireman, .	-
Axel Lundberg, . . .	Worcester, .	Special fire- man.	Special fire- man.	-
Frank Leighton, . . .	Worcester, .	Fireman, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John Lawless, . . .	Worcester,	Fireman,	Fireman,	-
Charles Leprime, . . .	Worcester,	Fireman,	Fireman,	-
Otto Lindberg, . . .	Worcester,	2d class,	Special,	-
Michael Leyden, . . .	Worcester,	Fireman,	Fireman,	-
James J. Lyons, . . .	Worcester,	Fireman,	Fireman,	-
Wm. H. Lewis, . . .	Worcester,	Engineer,	Special,	-
Michael Loughlin, . . .	Worcester,	Fireman,	Fireman,	-
Alvan G. Lamb, . . .	Worcester,	1st class,	1st class,	-
John Lese, . . .	Worcester,	Fireman,	Fireman,	-
Joseph Ladner, . . .	Worcester,	Fireman,	Fireman,	-
Carl Lof, . . .	Worcester,	Fireman,	Fireman,	-
Wm. McCann, . . .	Worcester,	Fireman,	Fireman,	-
A. D. Marrian, . . .	Worcester,	Fireman,	-	Rejected.
Frank Moore, . . .	Worcester,	2d class,	2d class,	-
Patrick Mulvey, . . .	Worcester,	Fireman,	Special fireman.	-
Fred W. Munroe, . . .	Worcester,	1st class,	1st class,	-
Charles E. Moore, . . .	Worcester,	2d class,	3d class,	-
James Martin, . . .	Worcester,	Fireman,	Fireman,	-
Michael Moore, . . .	Worcester,	Fireman,	Special fireman.	-
Michael Murphy, . . .	Worcester,	Fireman,	Fireman,	-
John A. McRae, . . .	Worcester,	1st class,	3d class,	-
A. F. Main, . . .	Worcester,	Fireman,	3d class,	-
Arthur McGee, . . .	Worcester,	2d class,	Fireman,	-
Patrick Murphy, . . .	Worcester,	Engineer,	3d class,	-
James McGuinn, . . .	Worcester,	3d class,	3d class,	-
Silas McDermott, . . .	Worcester,	Fireman,	Fireman,	-
Frank McMillan, . . .	Worcester,	Special eng. and fireman.	Special fireman.	-
Otto Moo, . . .	Worcester,	3d class eng. and fireman.	Special,	-
Martin McDonough, . . .	Worcester,	Fireman,	Fireman,	-
Thomas Noonan, . . .	Worcester,	Fireman,	Special fireman.	-
Patrick Nolan, . . .	Worcester,	3d class,	Special, 3d class.	-
Isaac B. Nichols, . . .	Worcester,	Fireman,	Fireman,	-
C. G. Newton, . . .	Worcester,	Fireman,	Fireman,	-
Peter A. Nelson, . . .	Worcester,	3d class,	3d class,	-
John P. Nelson, . . .	Worcester,	Fireman,	Fireman,	-
Charles H. Nutting, . . .	Worcester,	Special,	Special,	-
Patrick O'Brien, . . .	Worcester,	Fireman,	Fireman,	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
George F. Oakley, . . .	Worcester,	Fireman, .	Fireman, .	-
James O'Donnell, . . .	Worcester,	Fireman, .	Fireman, .	-
Romain Plormean, . . .	Worcester,	Engineer, .	3d class, .	-
F. A. Pierce,	Worcester,	2d class, .	2d class, .	-
E. P. Pierce,	Worcester,	Engineer, .	3d class, .	-
Arthur B. Powers, . . .	Worcester,	Fireman, .	Fireman, .	-
J. H. Pierce,	Worcester,	Fireman, .	Fireman, .	-
Thomas Perry,	Worcester,	Engineer, .	2d class, .	-
Alfred Peterson,	Worcester,	Fireman, .	Fireman, .	-
John T. Quinn,	Worcester,	2d class, .	3d class, .	-
Edward Quinlan,	Worcester,	Fireman, .	Fireman, .	-
A. L. Quillian,	Worcester,	Engineer, .	3d class, .	-
George E. Reddington, . .	Worcester,	Special fire- man.	Fireman, .	-
Wm. E. Richards,	Worcester,	Engineer, .	2d class, .	-
Benjamin T. Rust,	Worcester,	3d class, .	Fireman, .	-
Otis Redden,	Worcester,	Fireman, .	Fireman, .	-
Gilbert S. Rice,	Worcester,	2d class, .	Special, .	-
George I. Rockwood, . . .	Worcester,	1st class, .	1st class, .	-
John Rieley,	Worcester,	Fireman, .	Fireman, .	-
James S. Russell,	Worcester,	1st class, .	1st class, .	-
Orren Reardon,	Worcester,	Fireman, .	Fireman, .	-
James Rollston,	Worcester,	Fireman, .	Fireman, .	-
Wm. M. Russell,	Worcester,	2d class, .	3d class, .	-
James Robinson,	Worcester,	Engineer and fireman.	3d class, .	-
George Reed,	Worcester,	Fireman, .	Special fire- man.	-
John M. Svenson,	Worcester,	Fireman, .	Fireman, .	-
Eugene A. Sykes,	Worcester,	1st class, .	2d class, .	-
George I. Stearns,	Worcester,	Fireman, .	Fireman, .	-
C. G. Smiley,	Worcester,	Engineer, .	3d class, .	-
George W. Sawyer,	Worcester,	Fireman, .	Fireman, .	-
C. A. Smith,	Worcester,	Engineer, .	2d class, .	-
Bertram E. Savage,	Worcester,	1st class, .	1st class, .	-
Peter Sault,	Worcester,	2d class, .	3d class, .	-
Henry E. Southwick, . . .	Worcester,	Engineer, .	3d class, .	-
George Stewart,	Worcester,	Fireman, .	Special fire- man.	-
C. J. Sundstrom,	Worcester,	1st class, .	Special, .	-
Noel Tougas,	Worcester,	Fireman, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
James Torpey, . . .	Worcester, .	3d class, .	3d class, .	-
Arthur W. Thomson, . . .	Worcester, .	Fireman, .	Fireman, .	-
Robert Tate,	Worcester, .	Fireman, .	3d class, .	-
Fred E. Walden,	Worcester, .	Engineer, .	Special, .	-
Francis L. Waite,	Worcester, .	Fireman, .	Fireman, .	-
James Whelan,	Worcester, .	Fireman, .	Fireman, .	-
Charles M. White,	Worcester, .	1st class, .	1st class, .	-
Addison J. Williams,	Worcester, .	Fireman, .	Fireman, .	-
W. A. Wheeler,	Worcester, .	Fireman, .	Fireman, .	-
Gardner C. Whiting,	Worcester, .	3d class, .	3d class, .	-
Charles L. Ware,	Worcester, .	2d class, .	Special, .	-
Alexander R. Wray,	Worcester, .	3d class, .	3d class, .	-
Andrew Wallstein,	Worcester, .	1st class, .	1st class, .	-
Charles H. Whitcomb,	Worcester, .	Special fireman.	Special fireman.	-
Magnus Walden,	Worcester, .	Fireman, .	Special fireman.	-
George Weir,	Worcester, .	Engineer, .	2d class, .	-
John H. Walsh,	Worcester, .	Fireman, .	Fireman, .	-
Wm. H. Nuttall,	Worcester, .	Engineer and fireman.	3d class, .	-
Kimball R. Smith,	Worcester, .	1st class, .	1st class, .	-
Wm. R. Wheelock,	Worcester, .	Fireman, .	Fireman, .	-
August Bloomberg,	Worcester, .	Fireman, .	Fireman, .	-
Frank Wray,	Worcester, .	Fireman, .	Fireman, .	-
John McManus,	Worcester, .	Fireman, .	Fireman, .	-
Walter I. Gray,	Worcester, .	Engineer, .	2d class, .	-
James McGrath,	Worcester, .	Fireman, .	Fireman, .	-
Daniel Casey,	Worcester, .	Fireman, .	Fireman, .	-
John McGinn,	Worcester, .	Fireman, .	Fireman, .	-
Patrick Kane,	Worcester, .	Fireman, .	Fireman, .	-
Edward Sullivan,	Worcester, .	Fireman, .	Fireman, .	-
Lars Peter Nystrom,	Worcester, .	1st class, .	Special, .	-
Patrick Barry,	Worcester, .	Fireman, .	Fireman, .	-
John Sullivan,	Worcester, .	Fireman, .	Fireman, .	-
Sylvanus Russell,	Worcester, .	Special, .	2d class, .	-
W. E. Esterbrook,	Worcester, .	2d class, .	2d class, .	-
H. S. Rundlett,	Worcester, .	Fireman, .	Fireman, .	-
L. E. Lindberg,	Worcester, .	Fireman, .	Fireman, .	-
Peter Hook,	Worcester, .	1st class, .	Special, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John Reardon, . . .	Worcester,	Fireman,	Fireman,	-
Andrew M. Lundin, . . .	Worcester,	2d class,	2d class,	-
Lawrence O'Connell, . . .	Worcester,	Fireman,	Special eng. and fireman.	-
John F. Hickey, . . .	Worcester,	Fireman,	Fireman,	-
Edwin H. Willard, . . .	Worcester,	Fireman,	Fireman,	-
Raymond A. Schuyler, . . .	Worcester,	Fireman,	Fireman,	-
Philip Mulvey, . . .	Worcester,	Fireman,	Fireman,	-
Eugene Finnegan, . . .	Worcester,	Fireman,	Fireman,	-
A. D. Blanchard, . . .	Worcester,	Fireman,	Fireman,	-
George W. Webber, . . .	Worcester,	Special,	3d class,	-
August Peterson, . . .	Worcester,	Fireman,	Fireman,	-
J. M. Uppstrom, . . .	Worcester,	Engineer,	Special,	-
John Pauley, . . .	Worcester,	Fireman,	Fireman,	-
F. W. Barrett, . . .	Worcester,	1st class,	1st class,	-
Charles H. Carr, . . .	Worcester,	Engineer,	2d class,	-
John Tobin, . . .	Worcester,	Fireman,	Fireman,	-
George McMenemy, . . .	Worcester,	3d class,	3d class,	-
F. E. Collins, . . .	Worcester,	Fireman,	Fireman,	-
W. H. Powers, . . .	Worcester,	Engineer,	3d class,	-
John Lawless, . . .	Worcester,	3d class,	3d class,	-
W. A. Barnes, . . .	Worcester,	Engineer,	Special,	-
Frank Laduke, . . .	Worcester,	2d class,	3d class,	-
John Kiely, . . .	Worcester,	Fireman,	Fireman,	-
Edmond Lonergan, . . .	Worcester,	Fireman,	Fireman,	-
Edward Rice, . . .	Worcester,	Fireman,	Fireman,	-
Noah Ashworth, . . .	Worcester,	1st class,	1st class,	-
John N. Grout, . . .	Worcester,	Fireman,	Fireman,	-
F. S. Hunt, . . .	Worcester,	2d class,	2d class,	-
Frithiof Peterson, . . .	Worcester,	1st class,	2d class,	-
Willard W. Severance, . . .	Worcester,	Fireman,	Fireman,	-
August Cauling, . . .	Worcester,	1st class,	1st class,	-
L. R. Bee, . . .	Worcester,	3d class,	Hoisting,	-
Frank A. Moulton, . . .	Worcester,	1st class,	2d class,	-
W. E. Pierce, . . .	Worcester,	1st class,	Special,	-
Daniel Cooney, . . .	Worcester,	1st class,	2d class,	-
H. L. Dunnell, . . .	Worcester,	2d class,	3d class,	-
John Morgan, . . .	Worcester,	Fireman,	Fireman,	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Horace Hill,	Worcester,	2d class,	2d class,	-
John B. Moran,	Worcester,	1st class,	1st class,	-
Patrick Petit,	Worcester,	Fireman,	Fireman,	-
Charles W. Miller,	Worcester,	1st class,	Special,	-
James McGlinchy,	Worcester,	Fireman,	Fireman,	-
George R. Jackson,	Worcester,	1st class,	1st class,	-
John J. Fay,	Worcester,	Fireman,	Fireman,	-
James F. Leslie,	Worcester,	1st class,	2d class,	-
Wm. H. Mellor,	Worcester,	3d class,	3d class,	-
S. C. Paulin,	Worcester,	Engineer,	Hoisting,	-
Edward Jollin,	Worcester,	Special,	Special,	-
Daniel Cronin,	Worcester,	Special eng. and fireman.	Special,	-
Levi Grenon,	Worcester,	Engineer,	Special,	-
E. R. Merrill,	Worcester,	Engineer,	Special,	-
Peter Madden,	Worcester,	Fireman,	Fireman,	-
Charles G. Davis,	Worcester,	2d class,	3d class,	-
Henry E. Guello,	Worcester,	2d class,	2d class,	-
Axel Edwin Emberg,	Worcester,	1st class,	1st class,	-
Wm. Schollard,	Worcester,	Fireman,	Fireman,	-
John Rose,	Worcester,	1st class,	1st class,	-
David F. Smith,	Worcester,	Fireman,	Special fire- man.	-
Frank W. Clapp,	Worcester,	Fireman,	Fireman,	-
H. W. Smith,	Worcester,	Engineer,	2d class,	-
H. A. Richards,	Worcester,	Fireman,	Fireman,	-
Joel J. Peck,	Worcester,	1st class,	Special,	-
Alcott Edgerton,	Worcester,	Fireman,	Fireman,	-
Patrick Hussey,	Worcester,	Fireman,	Fireman,	-
H. A. Leslie,	Worcester,	1st class,	1st class,	-
George Webber,	Worcester,	Fireman,	Fireman,	-
John Farnon,	Worcester,	Engineer,	Special eng. and fireman.	-
Daniel E. Burbank,	Worcester,	Engineer,	3d class,	-
Daniel N. Cole,	Worcester,	1st class,	1st class,	-
Fred Cambo,	Worcester,	Hoisting,	Hoisting,	-
R. F. Kohlstrom,	Worcester,	2d class,	3d class,	-
T. B. Shepard,	Worcester,	Fireman,	Fireman,	-
E. C. Heywood,	Worcester,	1st class,	2d class,	-
Nils Westerlind,	Worcester,	Fireman,	Fireman,	-

Examination Report — Concluded.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Johan Johanson, . . .	Worcester, .	Fireman, .	Special engi- neer.	-
J. W. Howell, . . .	Worcester, .	Engineer, .	3d class, .	-
G. L. Greenlief, . . .	Worcester, .	Engineer, .	3d class, .	-
Albin Kasparson, . . .	Worcester, .	Engineer, .	Special, .	-
John Carlson, . . .	Worcester, .	1st class, .	2d class, .	-
Lewis J. Fuller, . . .	Worcester, .	Fireman, .	Fireman, .	-
Thomas Pera, . . .	Worcester, .	1st class, .	2d class, .	-
Charles Lesrence, . . .	Worcester, .	Fireman, .	Fireman, .	-

REPORT OF INSPECTOR LORD.

District No. 4.

SIR:—In compliance with your request, I herewith send you my first annual report for the months of July, August, September and October, for District No. 4, comprising Hampden, Hampshire, Berkshire and Franklin counties.

For the first month, or prior to the first of August, when the act to regulate steam engineering (chapter 471, Acts of 1895) went into effect, the work consisted principally of receiving applications and sending receipts for the same. Since that time I have been enabled to formulate a system of inspection and examination which meets with the approval of both employer and employee. At your suggestion I adopted the plan of examining the engineers and firemen upon their plants, thereby saving the employers the time and absence of the men from their work by being compelled to visit my office for examination, and also saving the candidates the expense.

I have divided my district into sections which embrace several towns within easy reach of each other, and when I enter one of these sections I inspect all uninsured boilers and examine all engineers and firemen, and in so doing save a considerable amount of time, and finish up that district. The only trouble I have experienced has been in determining the amount of time to be devoted to each section. To illustrate: I went to the Northampton district, which comprises the towns of Northampton, Easthampton, Westhampton, Southampton, West Farms, Loudville, Bay State, Florence, Leeds, Haydenville and Williamsburg. I had received eight notifications of uninsured boilers; before I had finished the district, I had discovered seventy-one boilers, and a great many of these were situated a long distance from railway stations, necessitating driving in a team.

The most of these boilers are operated by the owners, and all I have met are anxious to comply with all the conditions and requirements of the law, and cheerfully accept any suggestion which will enable them to more fully care for and prolong the life of their boilers. As a large number of these boilers are run only at intervals, great care should be exercised in leaving them in proper condition. The ashes should be carefully removed from the fire box, especially when wood is used for fuel, as wood ashes have a strong affinity for moisture, and, having absorbed the moisture, an alkali is formed which corrodes the iron on the line of the grate bars.

I found one boiler which to all outward appearance was in perfect condition, but the interior of fire box around the line of grates was corroded to such an extent that the boiler had to be condemned.

In the case of another boiler of the locomotive type, having a water-leg fire box, there had been no provision made for a back-bearing bar for the grate bars. A piece of cast iron the shape of the bottom of the ash pit had been placed close to the rear sheet, the ashes had sifted down between the sheet and cast iron, and, although the engineer in charge had been careful in removing all ashes from the pit, the condition of the sheet when the grates were removed for inspection was very bad. The proprietor himself immediately ordered a change. Another boiler of the locomotive pattern, located in a cellar, had been bricked up in order to prevent radiating, as the engine was only used when there was a scarcity of water. The dampness of the earth, with no ventilation, had corroded the exterior of the shell to such an extent that the boiler had to be condemned. The proprietors, after putting in a new boiler, and at my suggestion building an engine and boiler house above ground and adjoining the factory, insisted on having a boy to do the firing and running. The consequence was that ten days ago he allowed the water to leave the boiler, melt out the fusible plug, and a boiler maker had to be sent for from a long distance to calk the tubes, which were all leaking. In my opinion, no person should be licensed to run a plant unless at least twenty-one years of age.

On another boiler, situated in a brick yard, locomotive type, I found an open blister on the crown sheet which was circular in form; on the side sheet was a slight bagging. I ordered the open blister chipped off, and located by sound with the hammer the extent of the split in the sheet, and informed the proprietor that he would have to put a patch over the spot. He objected, and thought there was no need of it, as it looked all right. I requested him to bring the piece to my office when it had been cut out; in a few days he did so, and acknowledged that the new law of inspection of boilers was the best law that had been made for years. I carried the piece taken out to your office, and labelled it.

In my opinion this case demonstrates the superiority of the hammer test over the hydraulic. I am repeatedly requested to give boilers the hydraulic test, as it is the usual way of testing a boiler in this locality; but when it is explained to them that it puts an unnecessary strain upon the boiler, and really does not reveal the dangerous defects, they are convinced that it is better to carefully inspect every part of the boiler with the hammer.

There is a type of boiler of which I have found quite a number. This boiler I have learned was originally intended for hot-water heating, but is being used for low-pressure work quite extensively. It is an internally fired boiler, water leg the entire length. In all that I have inspected I have failed to find a hand hole, no provision having been made for cleaning or internal inspection; and in two cases I have had to order the brickwork torn down, to enable me to inspect the rear end and find the fusible plug.

As regards the examination of engineers and firemen, I find the majority of engineers, while practical, and performing their duties to the entire satisfaction of their employers, yet theoretically lacking in the first principles. This state of affairs can be attributed to a variety of causes. In a great many cases the early education had been neglected. Quite a number are foreigners, who are not familiar with the language. Lack of ambition is one of the principal causes, and quite a number have admitted to me that it is their own fault that they cannot take a better examination. They all admit that my method of examination is eminently practical, and not one has so far expressed dissatisfaction at the result. It is encouraging to them to know that they can study and qualify themselves, apply again to me for another examination until they receive the grading they desire. It is safe to say that in a year from the passage of the law the engineers of the State of Massachusetts will have improved one hundred per cent., and we shall have a more intelligent and trustworthy class of men than we have to-day.

Quite a number of the employers have requested me to give their men special licenses, in order to hold them; but I give a man full credit for all he is capable of.

Following is a summary of inspections and examinations, and detailed report:—

Summary of Examinations.

CLASS.	Applications Received.	Applicants Examined.	Licenses Granted.	Licenses Refused.
First,	158	25	7	—
Second,	281	30	5	—
Third,	394	53	22	—
Special,	602	45	110	—
Firemen,	264	93	101	1
Hoisting,	14	3	3	—
Total,	1,713	249	248	1

Summary of Inspections.

Boilers inspected,	141
Number of defects found,	80
Number of defects dangerous,	52
Boilers ordered repaired,	47
Boilers condemned,	3

Boiler Inspection Report.

DISTRICT No. 4.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Loudville.					
J. D. Norton & Son,	Planing mill, . . .	5	2	Replace packing; unload safety valve; remove settling; put on new patch; pressure, 60 pounds instead of 90 pounds.	Condemned; new boiler.
F. H. Davis,	Paper mill, . . .	—	—	None,	—
E. C. Hartwell,	Repair shop, . . .	1	1	Put in plug,	Aug. 30.
Monson.					
Owen Copp,	Massachusetts Hospital for Epileptics.	—	—	None,	—
Owen Copp,	Massachusetts Hospital for Epileptics.	—	—	None,	—
Owen Copp,	Massachusetts Hospital for Epileptics.	—	—	None,	—
Owen Copp,	Massachusetts Hospital for Epileptics.	—	—	None,	—
Willimansett.					
Phillips Bros. & Bean,	Brickyard, . . .	1	1	Put in plug,	Aug. 16.
Enright Bros., . . .	Brickyard, . . .	2	1	Put in plug; put in patch over split sheet,	Aug. 15.
North Amherst.					
A. R. Cushman,	Paper mill, . . .	1	1	Put in plug,	Sept. 14.
A. R. Cushman,	Paper mill, . . .	—	—	None,	—

A. R. Cushman,	Paper mill,	1	-	Enlarge size of plug, . . . .	. . . .	Sept. 14.
Geo. F. Mills, Superintendent Agricultural College,	College,	2	2	Put in plug; put on lock safety valve, . . . .	. . . .	No response.
Geo. F. Mills, Superintendent Agricultural College,	College,	2	2	Unload safety valve; put in plug, . . . .	. . . .	No response.
Geo. F. Mills, Superintendent Agricultural College,	College,	-	-	None, . . . .	. . . .	-
Geo. F. Mills, Superintendent Agricultural College,	College,	-	-	None, . . . .	. . . .	-
Geo. F. Mills, Superintendent Agricultural College,	College,	-	-	None, . . . .	. . . .	-
Mt. Tom.						
Thaddeus Parsons,	Cider mill,	-	-	None, . . . .	. . . .	-
Connecticut River Manuf'g Co.,	Scow on the river,	-	-	None, . . . .	. . . .	-
William Street,	Hotel,	3	2	Put in plug; put in new blow-off cock, . . . .	. . . .	Boiler condemned.
Huntington.						
H. E. Stanton,	Portable hoister,	1	1	Put in plug, . . . .	. . . .	Sept. 25.
M. R. Fisk,	Saw mill,	1	1	Put in plug, . . . .	. . . .	Aug. 20.
William Gondreau,	Portable hoister,	1	1	Put in plug, . . . .	. . . .	Aug. 20.
Shutesbury.						
W. R. Stetson,	Saw mill,	-	-	None, . . . .	. . . .	-
Otis Centre.						
Willard A. Harrington,	Wood-working mill,	1	1	Put in plug, . . . .	. . . .	Aug. 15.
Calvin B. Humphrey,	Portable saw mill,	-	-	None, . . . .	. . . .	-

Boiler Inspection Report — Continued.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
West Becket.					
Fred A. Willis,	Saw mill,	2	1	Put in plug; change piping to safety valve,	Aug. 21.
North Blandford.					
H. L. Pease,	Saw mill,	—	—	None,	—
W. G. Ham,	Hotel,	1	1	Put in plug,	Sept. 15.
Belchertown.					
L. L. Lord,	Merry-go-round,	1	1	Put in plug,	Oct. 3.
Florence.					
Florence Furniture Company,	Casket manufactory,	—	—	None,	—
Henry H. Vollinger,	Cider mill,	1	1	Put in plug,	—
J. A. Boardway,	Engine house,	—	—	None,	—
J. A. Boardway,	Engine house,	—	—	None,	—
H. B. Haven,	Lilly library,	—	—	None,	—
L. P. Bryant,	Printing office,	—	—	None,	—
Walter C. Goodwin,	Saw mill,	—	—	None,	—
Walter C. Goodwin,	Wood-working,	—	—	None,	—
					No response.

Williamsburg.

W. W. Nash,	Saw mill,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
W. E. Pillinger,	Portable upright,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
W. H. Thayer,	Machine shop,	2	1	Change piping to safety plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 30.
Hill Brothers,	Brush factory,	1	1	Change piping to safety valve, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 30.
Prescott Williams,	Cider mill,	1	1	Put in plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 30.

Bay State.

E. E. Wood,	Cutlery manufactory,	1	1	Change piping to safety valve, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Oct. 26.
E. E. Wood,	Cutlery manufactory,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-

Southampton.

C. D. Hannum,	Cider mill,	1	1	Put in plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 15.
Enoch Olds,	Saw mill,	1	1	Put in plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 15.

Easthampton.

James T. Conney,	Saw mill,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
E. W. Wood,	Sawing wood,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
W. B. Lamont,	Laundry,	1	1	Put in plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 19.
William Hill,	Hotel,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
William Hill,	Hotel,	1	1	Put in plug, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Sept. 20.
William Gallagher,	Williston seminary,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-
William Gallagher,	Williston seminary,	-	-	None, . . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-

Boiler Inspection Report — Continued.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Easthampton — Concluded.					
William Gallagher,	Williston seminary, .	-	-	None,	-
William Gallagher,	Williston seminary, .	-	-	None,	-
H. M. Taylor,	Portable saw mill, .	-	-	None,	-
George Collins,	Memorial hall, .	-	-	None,	-
George Collins,	Memorial hall, .	-	-	None,	-
Westhampton.					
Levi Burt,	- - - - -	1	1	Put in plug,	Sept. 30.
Eugene Berry,	Portable saw mill, .	-	-	None,	-
C. M. Berry,	Portable upright, . .	1	1	Put in plug,	No response.
Leeds.					
H. P. Otis,	Emery wheel factory, .	-	-	None,	-
Greenfield					
P. R. Mallory,	Carpet cleaning, . .	1	1	Condemned; external corrosion heavy; ordered new inside sheet to fire box.	New boiler.
L. P. Dame, supt. of schools, .	School,	-	-	None,	-
L. P. Dame, supt. of schools, .	School,	-	-	None,	-
L. P. Dame, supt. of schools, .	School,	-	-	None,	-

L. P. Dame, supt. of schools,	School,	-	-	None,	-
L. P. Dame, supt. of schools,	School,	-	-	None,	-
Chauncey O. Wing,	Machine shop,	-	-	None,	-
Jesse Newton,	Soap factory,	1	1	Put in plug,	Sept. 10.
Springfield.					
E. C. Stacy,	Machine shop,	2	1	Put in new top head,	No response.
Springfield Webbing Company,	Elastic webbing,	1	-	Change piping to safety valve,	Sept. 16.
James D. Gill,	Offices,	3	2	Change piping to safety valve; lift arch in back connecting frame off safety plug; repair setting.	-
William Hopley,	Restaurant,	1	1	Put in plug,	Aug. 16.
C. E. Schmuck,	Town hall,	-	-	None,	-
Morrissey & Shea,	Portable hoister,	1	1	Put in plug,	Aug. 23.
Mill River Manufacturing Co.,	Manufacturers of bed comforters.	-	-	None,	-
E. C. Stacy,	Machine shop,	-	-	None,	-
Holyoke.					
Geo. F. Fowler,	Glazed paper,	-	-	None,	-
Geo. F. Fowler,	Glazed paper,	-	-	None,	-
Geo. F. Fowler,	Glazed paper,	-	-	None,	-
T. F. Webber,	Church,	1	1	New nipples connecting sections,	Aug. 30.
Keating Bicycle Manufactory,	Bicycles,	1	1	Put in plug,	-
Theo. Spamer,	Hotel,	-	-	None,	-
K. J. Yoerg,	Saloon,	-	-	None,	-

Boiler Inspection Report — Concluded.

NAME.	Building Used for —	DEFECTS FOUND.		Orders Given.	Compliances.
		Total.	Dangerous.		
Northampton — Concluded.					
Father Kenny,	Church,	-	-	None,	-
Father Kenny,	Parochial school,	-	-	None,	-
C. E. Herrick,	Machine shop,	4	1	Put in plug; shore up saddle; change pressure gauge connections; put on new gauge.	Oct. 14.
Geo. H. Farrar,	Hotel,	-	-	None,	-
Geo. H. Farrar,	Hotel,	-	-	None,	-
Geo. H. Farrar,	Hotel,	1	1	Put in plug,	-
J. A. Sullivan,	Hardware,	-	-	None,	-
Benj. Cook,	Stoves,	-	-	None,	-
Henry Crafts,	Laundry,	2	1	Patch dry sheet; repair setting,	No response.
E. C. Stone,	Printing office,	-	-	None,	-
Lewis Warner,	Machine shop,	-	-	None,	-
City of Northampton,	School,	-	-	None,	-
Heald & Pringle,	Planing mill,	3	1	Put in plug; put in bearing bar for grate; pack flange to steam dome; repair gauge cocks; clean out underneath boiler.	Aug. 19.
James A. Boardway,	Steam fire engine,	-	-	None,	-
L. W. Smith,	Carpet cleaning,	1	1	Put in plug,	No response.

[illegible]

Examination Report.

DISTRICT No. 4.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John L. Selden, . . .	Northampton, .	Fireman, .	Fireman, .	-
Richard Gillis, . . .	Northampton, .	Fireman, .	Fireman, .	-
Michael Nolan, . . .	Northampton, .	Fireman, .	Fireman, .	-
James Nolan, . . .	Northampton, .	Fireman, .	Fireman, .	-
Louis Grugras, . . .	Northampton, .	Fireman, .	Fireman, .	-
Felix Tardigg, . . .	Northampton, .	Fireman, .	Fireman, .	-
Alfred Wade, . . .	Northampton, .	Fireman, .	Fireman, .	-
Eben D. Smith, . . .	Northampton, .	Fireman, .	Fireman, .	-
Andrew P. Hancock, . .	Northampton, .	Fireman, .	Fireman, .	-
John R. Rushford, . . .	Northampton, .	Fireman, .	Fireman, .	-
Edward Yandon, . . .	Northampton, .	Fireman, .	Fireman, .	-
Chas. D. Barrett, . . .	Northampton, .	Fireman, .	Fireman, .	-
James Murray, . . .	Northampton, .	Fireman, .	Fireman, .	-
N. B. Heldt, . . .	Northampton, .	Fireman, .	Fireman, .	-
John B. Chase, . . .	Northampton, .	Fireman, .	Fireman, .	-
Frank R. Burnett, . . .	Northampton, .	Fireman, .	Fireman, .	-
John H. Tierny, . . .	Northampton, .	Fireman, .	Fireman, .	-
Henry Seely, . . .	Williamstown, .	Fireman, .	Fireman, .	-
John W. Cobleigh, . . .	Williamstown, .	Fireman, .	Fireman, .	-
Patrick Collins, . . .	Williamstown, .	Fireman, .	Fireman, .	-
Chas. W. Noyes, . . .	Williamstown, .	Fireman, .	Fireman, .	-
William Wagstaff, . . .	Williamstown, .	Fireman, .	Fireman, .	-
Edwin M. Mason, . . .	Florence, .	Fireman, .	Fireman, .	-
William Hall, . . .	Florence, .	Fireman, .	Fireman, .	-
James Whalen, . . .	Florence, .	2d class, .	Fireman, .	-
David Londergan, . . .	Florence, .	Fireman, .	Fireman, .	-
James Sullivan, . . .	Florence, .	Fireman, .	Fireman, .	-
John Smith, . . .	Florence, .	Fireman, .	Fireman, .	-
James Shannon, . . .	Florence, .	Fireman, .	Fireman, .	-
Chas. A. Noble, . . .	Florence, .	Fireman, .	Fireman, .	-
Thos. F. McGrath, . . .	Florence, .	Fireman, .	Fireman, .	-
Harry L. Smith, . . .	Florence, .	Fireman, .	Fireman, .	-
Joseph Reese, . . .	Florence, .	Fireman, .	Fireman, .	-
W. C. Hamilton, . . .	Greenfield, .	3d class, .	Fireman, .	-
Frank W. Chapin, . . .	Greenfield, .	Fireman, .	Fireman, .	-
William Hall, . . .	Greenfield, .	Fireman, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Fred W. Walter, . . .	Westfield, . . .	Fireman, .	Fireman, .	-
Samuel Read, . . .	Merrick, . . .	3d class, .	Fireman, .	-
Dwight F. Tenny, . . .	Shutesbury, . . .	3d class, .	Fireman, .	-
John L. O. Sullivan, . . .	Mittineague, . . .	Fireman, .	Fireman, .	-
Michael Fenton, . . .	Amherst, . . .	Fireman, .	Fireman, .	-
John P. Shelden, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Fred Tatro, . . .	Mount Tom, . . .	Fireman, .	Fireman, .	-
Thos. L. Lawrence, . . .	Mount Tom, . . .	1st class, .	Fireman, .	-
Albert M. Niven, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Samuel B. Darling, . . .	Springfield, . . .	1st class, .	Fireman, .	-
James T. Ripley, . . .	Springfield, . . .	1st class, .	Fireman, .	-
John Cahill, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
J. Boughton, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Chas. H. Emerson, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
H. A. Smith, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
C. G. Bowman, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Anthony A. Trow, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Luke Dunn, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
James F. Boylan, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
John Mitzger, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Frederick C. Roberts, . . .	Springfield, . . .	3d class, .	Fireman, .	-
Edwin B. Mukins, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Lewis Bassett, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
John Byrnes, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Thos. J. Dowd, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
James Gilbreth, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Chas. E. Moody, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
John Welsh, . . .	Springfield, . . .	Fireman, .	Fireman, .	-
Samuel H. Smith, . . .	Northampton, . . .	Fireman, .	Fireman, .	-
Willard H. Thompson, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
William E. Sanger, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
James Knox, . . .	Easthampton, . . .	3d class, .	Fireman, .	-
Edward Chapman, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
Robert S. Johnson, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
Nelson Lofran, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
John Devine, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-
Francois O. Rosbrook, . . .	Easthampton, . . .	Fireman, .	Fireman, .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
John M. Reid, . . .	Easthampton, .	Fireman, .	Fireman, .	-
William L. Gorham, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Wm. Halford, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Robert Buggee, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Patrick Croake, . . .	Easthampton, .	Fireman, .	Fireman, .	-
T. W. Thompson, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Patrick McCarthy, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Eugene Gravelin, . . .	Mount Tom, .	Fireman, .	Fireman, .	-
Edwin Sanger, . . .	Easthampton, .	Fireman, .	Fireman, .	-
Clifford M. Prouty, . . .	Northampton, .	Fireman, .	Fireman, .	-
John M. Benson, . . .	Northampton, .	3d class, .	3d class, .	-
Chas. S. Pratt, . . .	Northampton, .	3d class, .	3d class, .	-
Clarence E. Brown, . . .	Northampton, .	3d class, .	3d class, .	-
Morris Ahearn, . . .	Northampton, .	3d class, .	3d class, .	-
Edward A. Thompson, . . .	Amherst, . . .	1st class, .	2d class, .	-
John Merrill, . . .	Springfield, .	2d class, .	2d class, .	-
Andrew S. Johnson, . . .	Greenfield, .	2d class, .	2d class, .	-
William G. Cameron, . . .	Palmer, . . .	2d class, .	2d class, .	-
Myron W. Thayer, . . .	Easthampton, .	2d class, .	2d class, .	-
Orson B. Parish, . . .	Springfield, .	1st class, .	3d class, .	-
Chauncy M. Cannon, . . .	Becket Centre, .	2d class, .	3d class, .	-
Frank B. Kelly, . . .	Greenfield, .	2d class, .	3d class, .	-
Arnold Webber, . . .	Springfield, .	3d class, .	3d class, .	-
S. John Weslogrier, . . .	Springfield, .	2d class, .	3d class, .	-
Rufus Anderson, . . .	Easthampton, .	1st class, .	3d class, .	-
Thos. Wall, . . .	Easthampton, .	3d class, .	3d class, .	-
J. F. Webber, . . .	Easthampton, .	2d class, .	3d class, .	-
J. McKeraghan, . . .	Easthampton, .	2d class, .	3d class, .	-
F. S. Isabel, . . .	Easthampton, .	3d class, .	3d class, .	-
Wm. F. Bly, . . .	Easthampton, .	1st class, .	3d class, .	-
Gordon Fielding, . . .	Pittsfield, . . .	2d class, .	3d class, .	-
Edward S. White, . . .	Amherst, . . .	3d class, .	3d class, .	-
James H. Burke, . . .	Springfield, .	3d class, .	3d class, .	-
Patrick Flynn, . . .	Florence, . . .	2d class, .	Fireman, .	-
Grant U. Foster, . . .	Loudville, . . .	Fireman, .	Fireman, .	-
Augustus Barter, . . .	Northampton, .	3d class, .	Fireman, .	-
James Hackett, . . .	Northampton, .	3d class, .	Fireman, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Michael I. Finn, . . .	Northampton, .	Fireman, .	Fireman, .	-
Henry Spring, . . .	Northampton, .	3d class, .	Fireman, .	-
Franklin Warren, . . .	Leeds, . . .	Fireman, .	Fireman, .	-
Adolph Granteir, . . .	Haydenville, .	Fireman, .	Fireman, .	-
Thomas Noonan, . . .	Leeds, . . .	Fireman, .	Fireman, .	-
Chas. F. Faas, . . .	Leeds, . . .	Fireman, .	Fireman, .	-
Joseph Bishop, . . .	Florence, . . .	Fireman, .	Fireman, .	-
Andrew Wight, . . .	West Springfield, .	Fireman, .	Fireman, .	-
Louis Guyot, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
Thos. E. O'Neil, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
Thos. West, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
J. J. Adams, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
Wm. Zendoro, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
Augustus Guyot, . . .	Mt. Tom, . . .	Fireman, .	Fireman, .	-
Charles D. Newton, . . .	Northampton, .	Special, .	Special, .	-
William H. Strong, . . .	Northampton, .	Special, .	Special, .	-
T. E. Henry, . . .	Northampton, .	Special, .	Special, .	-
Chas. O. Gloyd, . . .	Northampton, .	3d class, .	Special, .	-
Chas. W. Abbott, . . .	Northampton, .	Special, .	Special, .	-
Michael Goodsell, . . .	Northampton, .	3d class, .	Special, .	-
Horace P. Barker, . . .	Northampton, .	1st class, .	Special, .	-
John G. Belding, . . .	Northampton, .	3d class, .	Special, .	-
L. A. Belding, . . .	Northampton, .	3d class, .	Special, .	-
Chas. R. Farr, . . .	Northampton, .	3d class, .	Special, .	-
Dennis McCarty, . . .	Northampton, .	1st class, .	Special, .	-
John Sullivan, . . .	Northampton, .	Fireman, .	Special, .	-
John J. Raleigh, . . .	Northampton, .	Special, .	Special, .	-
Chas. Nichols, . . .	Northampton, .	1st class, .	Special, .	-
Norman L. Cornwell, . . .	Northampton, .	Special, .	Special, .	-
Edwin T. Henry, . . .	Northampton, .	Special, .	Special, .	-
Henry C. Smith, . . .	Northampton, .	3d class, .	Special, .	-
Mitchell Gagner, . . .	Northampton, .	3d class, .	Special, .	-
George S. Gore, . . .	Northampton, .	3d class, .	Special, .	-
Arthur T. Walker, . . .	Northampton, .	3d class, .	Special, .	-
William H. Campbell, . . .	Easthampton, .	2d class, .	Special, .	-
R. S. Frost, . . .	Springfield, .	Fireman, .	Special, .	-
E. L. Davenport, . . .	Springfield, .	3d class, .	Special, .	-

Examination Report — Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Martin L. Sonberger, . . .	Haydenville, . . .	2d class, . . .	Special, . . .	-
Lewis Tracy, . . .	Leeds, . . .	2d class, . . .	Special, . . .	-
Joseph Brown, . . .	Haydenville, . . .	3d class, . . .	Special, . . .	-
Samuel A. Ewing, . . .	Haydenville, . . .	3d class, . . .	Special, . . .	-
L. E. Tyler, . . .	Leeds, . . .	1st class, . . .	Special, . . .	-
W. C. Turnercliffe, . . .	Leeds, . . .	3d class, . . .	Special, . . .	-
William H. Ruce, . . .	Leeds, . . .	3d class, . . .	Special, . . .	-
Nana Perrier, . . .	Northampton, . . .	Special, . . .	Special, . . .	-
Chas. M. Loud, . . .	Westhampton, . . .	3d class, . . .	Special, . . .	-
James M. Foster, . . .	Williamsburg, . . .	3d class, . . .	Special, . . .	-
Abner Damon, . . .	Williamsburg, . . .	Special, . . .	Special, . . .	-
William Lawly, . . .	Williamsburg, . . .	Special, . . .	Special, . . .	-
W. W. Nash, . . .	Williamsburg, . . .	Special, . . .	Special, . . .	-
Philibert Auger, . . .	Mt. Tom, . . .	3d class, . . .	Hoisting, . . .	-
Osborn M. Loomis, . . .	Greenfield, . . .	3d class, . . .	3d class, . . .	-
Solon H. Stone, . . .	Greenfield, . . .	2d class, . . .	3d class, . . .	-
James Lawly, . . .	Northampton, . . .	3d class, . . .	3d class, . . .	-
Henry Townsend, . . .	Florence, . . .	2d class, . . .	3d class, . . .	-
Frank E. Lyman, . . .	Easthampton, . . .	3d class, . . .	Special, . . .	-
Thaddeus Parsons, . . .	Mt. Tom, . . .	Special, . . .	Special, . . .	-
Alfred C. Chesny, . . .	Mt. Tom, . . .	1st class, . . .	Special, . . .	-
Albert D. Kirkpatrick, . . .	Mt. Tom, . . .	3d class, . . .	Special, . . .	-
John E. Thompson, . . .	Northampton, . . .	2d class, . . .	Special, . . .	-
Tofield Lucier, . . .	Northampton, . . .	2d class, . . .	Special, . . .	-
Waldo H. Whitcomb, . . .	Northampton, . . .	Fireman, . . .	Special, . . .	-
R. H. Noyes, . . .	Williamstown, . . .	3d class, . . .	Special, . . .	-
W. C. Pike, . . .	Williamstown, . . .	Special, . . .	Special, . . .	-
H. F. Pomeroy, . . .	Easthampton, . . .	Special, . . .	Special, . . .	-
Luke M. Thornton, . . .	Orange, . . .	3d class eng. and fireman.	Special, . . .	-
Kraig J. Yoerg, . . .	Holyoke, . . .	Special, . . .	Special, . . .	-
Chas. R. Buffington, . . .	North Amherst, . . .	3d class eng. and fireman.	-	-
Geo. H. Farrar, . . .	Northampton, . . .	Special, . . .	Special, . . .	-
Reuben Robinson, . . .	Northampton, . . .	1st class, . . .	Special, . . .	-
Paul Weaner, . . .	Northampton, . . .	Fireman, . . .	Special, . . .	-
Michael Nevill, . . .	Northampton, . . .	2d class, . . .	Special, . . .	-
W. A. Lee, . . .	Northampton, . . .	Fireman, . . .	Special, . . .	-
Dennis Dowd, . . .	Florence, . . .	3d class, . . .	Special, . . .	-

Examination Report—Continued.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Henry H. Vollinger, . . .	Florence, . . .	Special, .	Special, .	-
Walter G. Goodwin, . . .	Florence, . . .	Special, .	Special, .	-
A. F. Main,	Florence, . . .	Special, .	Special, .	-
Henry Cox,	Florence, . . .	2d class, .	Special, .	-
Wilfred Martineau, . . .	Florence, . . .	2d class, .	Special, .	-
Herbert Gagnon,	Florence, . . .	2d class, .	Special, .	-
Dwight L. Hurly,	Florence, . . .	1st class, .	Special, .	-
John W. Martin,	Florence, . . .	2d class, .	Special, .	-
William A. Rauch,	Florence, . . .	2d class, .	Special, .	-
Benj. E. Lachapelle, . . .	Northampton, .	Special, .	Special, .	-
Dennis Daily,	Northampton, .	Special, .	Special, .	-
E. E. Wood, Jr.,	Northampton, .	Special, .	Special, .	-
Alvin M. Locke,	Northampton, .	3d class eng. and fireman.	Special, .	-
P. F. Brennan,	Northampton, .	Special, .	Special, .	-
J. B. Martin,	Northampton, .	Special, .	Special, .	-
John Fieldman,	Northampton, .	2d class, .	Special, .	-
Geo. F. Brige,	Northampton, .	2d class, .	Special, .	-
Chas. D. Dunning,	Northampton, .	3d class, .	Special, .	-
William Londergan,	Northampton, .	3d class, .	Special, .	-
Herbert E. Walker,	Northampton, .	Special, .	Special, .	-
Chas. E. Till,	Northampton, .	Special, .	Special, .	-
Clarence H. Langdon, . . .	Northampton, .	2d class, .	Special, .	-
Alfred Walnwright,	Montague City, .	Hoisting, .	Hoisting, .	-
Frank W. Potter,	Springfield, . .	1st class, .	1st class, .	-
Joseph H. Ward,	Easthampton, .	1st class, .	1st class, .	-
John W. Warren,	Mt. Tom,	1st class, .	1st class, .	-
R. H. Nickerson,	Northampton, .	1st class, .	1st class, .	-
Edwin S. Witherell,	Springfield, . .	1st class, .	1st class, .	-
J. C. Pettibone,	Mt. Tom,	1st class, .	1st class, .	-
Chas. L. Sewall,	Easthampton, .	1st class, .	1st class, .	-
L. N. Wheelock,	Leeds,	1st class, .	1st class, .	-
E. J. O'Neil,	Chicopee Falls, .	Special, .	Special, .	-
Frank D. Smith,	Westfield, . . .	Special, .	Special, .	-
Frank D. Smith,	Chester,	Special, .	Special, .	-
Willard A. Harrington, . . .	Otis,	3d class eng. and fireman.	Special, .	-
E. C. Hartwell,	Greenfield, . . .	Special, .	Special, .	-
Edward F. Ruce,	Greenfield, . . .	Special, .	Special, .	-

Examination Report — Concluded.

NAME.	City or Town.	License Applied for.	Class of License Granted.	Remarks.
Wm. M. Jones, . . .	Greenfield, .	Special, .	Special, .	-
Wm. Hopler, . . .	Springfield, .	Special, .	Special, .	-
Chas. H. Horn, . . .	Springfield, .	1st class, .	Special, .	-
George Krauss, . . .	Springfield, .	1st class, .	Special, .	-
Morris P. Clark, . . .	Chesterfield, .	3d class, .	Special, .	-
Richard E. Kane, . . .	Springfield, .	3d class eng. and fireman.	Special, .	-
George Franklin, . . .	Northampton, .	2d class, .	Special, .	-
Chas. S. Olds, . . .	Southampton, .	Special, .	Special, .	-
James S. Connery, . . .	Easthampton, .	Special, .	Special, .	-
Alonzo Pettingill, . . .	Easthampton, .	Special, .	Special, .	-
Albert N. Baldwin, . . .	Easthampton, .	Special, .	Special, .	-
G. D. Hannum, . . .	Southampton, .	Special, .	Special, .	-
Chas. T. Diamond, . . .	Easthampton, .	3d class eng. and fireman.	Special, .	-
Frank A. Loud, . . .	Westhampton, .	Special, .	Special, .	-
Lyman W. Dibble, . . .	Easthampton, .	Special, .	Special, .	-
Fred H. Lull, . . .	Monson, . . .	3d class eng. and fireman.	Special, .	-
Walter I. Dodge, . . .	Northampton, .	2d class, .	Special, .	-
E. W. Wood, . . .	Easthampton, .	Special, .	Special, .	-
Chas. H. Upson, . . .	Easthampton, .	Special, .	Special, .	-
M. B. Lamont, . . .	Easthampton, .	Special, .	Special, .	-
David L. Merry, . . .	Easthampton, .	3d class, .	Special, .	-
Charlie Flunandino, . . .	Easthampton, .	3d class eng. and fireman.	Special, .	-
Joseph Basset, . . .	Easthampton, .	1st class, .	Special, .	-
A. B. King, . . .	Easthampton, .	3d class eng. and fireman.	Special, .	-
R. E. Colter, . . .	Easthampton, .	3d class eng. and fireman.	Special, .	-
R. E. Colter, . . .	Easthampton, .	3d class eng. and fireman.	Special, .	-
John L. Quinlan, . . .	Easthampton, .	3d class, .	Special, .	-
Joseph H. Donoghue, . . .	Springfield, .	Hoisting, .	Hoisting, .	-

Some comment being made that the examinations for first-class licenses were theoretical and not practical, and that engineers may not be alarmed by those who have spread these rumors, I give the printed list of questions asked at the examination held by Inspector Hawley at the State House during October, and which are the questions criticised. Beside each question is given its percentage value, the emer-

gency questions having the greatest value. The two figuring problems it will be seen had only a value of three per cent. The list was divided into two parts, the first part being for high-pressure engines, and any person getting sixty-five per cent. upon these questions obtained a first-class license, limited to single non-condensing engines. Any person answering sixty-five per cent. of all the questions correctly, according to the value given each question, received an unlimited license. There were fifty-five questions in all, each question being subdivided to indicate how the question was expected to be answered. The questions I believe to be fair and practical, and readily answered by any first-class engineer of experience.

First Part.

1. In a return tubular, where is the fusible plug located? What shape is the filling? Why is it that shape? ($1\frac{1}{2}$ per cent.)
2. What is the best way to set two 60-inch boilers? Give thickness of walls, materials, bridge wall from shell and other dimensions. (3 per cent.)
3. Is the diameter of a tube and a pipe measured from inside or outside? (1 per cent.)
4. What are the usual fittings on a boiler? (2 per cent.)
5. What care in position is necessary in setting up a "water column" or "combination box"? How kept in good order? (2 per cent.)
6. Suppose after two gauges show in glass that pump was stopped. Five minutes after that you notice water at top of glass. What would you do, and what was the cause of the difficulty, boiler not foaming? (2 per cent.)
7. In the case of violent foaming, what would you do? ($1\frac{1}{2}$ per cent.)
8. Suppose feed pump working, but water level in boiler gradually dropping. Name the different places you would look to find the difficulty. (3 per cent.)
9. What is the purpose of a check valve on feed pipe on battery of boilers? Where put? What care does it need? ($1\frac{1}{2}$ per cent.)
10. Give advantages and disadvantages of the "open" heater. What attention does a closed heater ever require? (2 per cent.)
11. What is your practice in blowing off a boiler? (2 per cent.)

12. Where two boilers are in battery and blow-off pipe of one should burst inside setting, what would you do? In such accident, would the water line of the other boiler be affected, blow-offs being independent? How? (3 per cent.)

13. If you should observe while running that no water appeared in the gauge glass, what would you do? (3 per cent.)

14. How should a safety valve be connected to a boiler? (1 per cent.)

15. What portions of a safety valve are liable to give trouble? How kept in good order? (2 per cent.)

16. A safety valve is 4 inches in diameter, stem and valve weigh 3 pounds, lever (of uniform section) is 24 inches long, weighs 16 pounds, fulcrum to stem 4 inches, ball 100 pounds, 20 inches from fulcrum. At what pressure will valve blow? (1 per cent.)

17. A boiler is left with banked fires, safety valve set to blow at 60 pounds. You return and find pressure gauge indicates 140 pounds, safety valve being stuck somewhere. Tell in detail just what you would do? (3 per cent.)

18. In cleaning and inspecting a return tubular boiler, what do you do and what points do you particularly look out for? In vertical boiler? (3 per cent.)

19. What is the difference between blister on a boiler, and a bag? When are they dangerous? (1 per cent.)

20. What is the difference between a soft and a hard patch? Should a boiler be patched on inside or outside? Why? (1 per cent.)

21. An upright boiler is double riveted, shell of steel, 60 inches diameter, $\frac{3}{8}$ inch stay, bolts are round and 1 inch in diameter, in rows 10 inches apart horizontally and 8 inches vertically. What pressure is it safe to run regularly? At what pressure would shell burst? (2 per cent.)

22. What care should be taken in erecting main steam piping from battery of boilers? Where in piping should main stop valve be placed? ($1\frac{1}{2}$ per cent.)

23. What is difference between a duplex pump and a double pump? (1 per cent.)

24. Give two points a good suction hose must possess. What fittings? (1 per cent.)

25. Explain how pump can lift water from tank below it, and how high it is possible to lift it. (1 per cent.)

26. Tell from your experience various causes of a pump working badly, and how you would detect, prevent and remedy them. (2 per cent.)

27. In replacing steam-chest cover of Knowles or similar feed pump, what care is taken in cutting the gasket? (2 per cent.)

28. Where heating returns come to a closed tank at a high temperature, and then pumped to boiler, what pipes are tapped into tank, and where located? (2 per cent.)

29. What difficulty does a pump ever have in drafting water from this tank? Under such difficulty, how would you maintain water level in boiler? (2 per cent.)

30. What is the difference in principle of operation between an automatic cut-off and slide-valve throttling engine? (1 per cent.)

31. How do you set the valves of a common slide-valve engine? (3 per cent.)

32. Give two reasons why "lead" is usually given a valve. (1 per cent.)

33. Give two reasons for use of compression in an engine. (1 per cent.)

34. How do you set the valves of one of the automatic cut-off engines named in your declaration? (Give name of engine selected.) (3 per cent.)

35. Is it necessary in setting valves to block up the governor? In what positions would you block it? Explain in detail what you would do, or what points to look out for when governor is so blocked. (4 per cent.)

36. How can you tell that an engine will not race dangerously should the main belt break or the governor belt break? (3 per cent.)

37. If the valve stem of steam valve of a Corliss engine should break, what could be done to prevent a shut-down? ($1\frac{1}{2}$ per cent.)

38. In keying-up crank-pin and wrist-pin brasses, give two reasons for use of the "shim," and under which brass is it put, and why? (2 per cent.)

39. By what symptoms do you tell when a belt is overloaded and when it is not safe to further tighten it? (2 per cent.)

40. If a belt driving from one shaft to another is overloaded, how can the belt be made to transmit same power without overloading. ($1\frac{1}{2}$ per cent.)

41. Suppose a belt running near a wall, and the belt overhangs the driven pulley and rubs the wall. To correct this, would you move the bearing nearest the wall away from, or toward, the driving shaft? ($1\frac{1}{2}$ per cent.)

42. Draw an indicator card with valve showing late, wire drawing steam line, cut off slow at one-third stroke, excessive leakage of piston, very late release beyond the centre, slight back pressure and no compression. (2 per cent.)

Second Part.

43. Why is a compound more economical than a simple engine, both working at same pressure and ratio of expansion? (1 per cent.)

44. Is there any reason why a receiver is more needed on a cross-compound than a tandem? If so, what? (2 per cent.)

45. What is effect on receiver pressure of cutting off later in first cylinder? (1 per cent.)

46. In triple engine with second cylinder doing much more work than low pressure, how can cut-off be best adjusted in either cylinder to balance load between cylinders? (1 per cent.)

47. With ordinary cross-compound high-pressure piston stuck on centre, how can engine be started without barring wheel? (2 per cent.)

48. How do you figure horse-power of compound engine? (1 per cent.)

49. If high-pressure valve gear should be broken, how could you keep compound engine running? (1 per cent.)

50. Give method of starting large compound condensing engine, jet condenser direct connected. (3 per cent.)

51. Is there any valve between air pump and jet condenser? What is its purpose? What trouble does it give? ($1\frac{1}{2}$ per cent.)

52. Give several ways vacuum may be lost. (2 per cent.)

53. Do you open injection valve before or after starting engine, and in stopping is it closed first or last? Why? (2 per cent.)

54. How and when is a cylinder most likely to be flooded from condenser? (1 per cent.)

55. What automatic valves are usually placed on an independent condenser, and what are they for? (1 per cent.)

During the year seven disastrous boiler explosions have been investigated by officers of this department. By these explosions eleven persons were killed and twenty-five seriously injured. In five cases defective boilers were the cause of explosion, and the other two were caused by ignorant firemen. The inspectors' reports upon the fatal accidents are given beyond.

EXPLOSION AT SLATER WOOLLEN MILL, WEBSTER.

SIR:—Upon the explosion of a boiler at the Slater Woollen Mill, Webster, Mass., I beg to report as follows:—

The boiler was situated at the South Village mill, was one of a battery of twelve, this battery consisting of five horizontal tubular boilers in one group, four Harrison safety boilers adjoining them, and beyond these, setting at right angles, three more tubular boilers. The tubular boilers were all forty-eight inches in diameter, of various ages, and were built by Wm. Allen & Sons of Worcester. The boiler that exploded was the third in the group of five. The explosion occurred at about 12.30, noon, Sunday, March 17. The explosion was a very violent one, the boiler leaving its setting and passing bodily backward in a straight line, passing through the brick wall of the building and striking a slanting stone ledge. This ledge diverted the course of the boiler upward, and it then passed through the foundation of a dwelling-house, up through the floors of this building, out of the side of the front of the house, then crossing the main thoroughfare of the town and striking the foundation of a building on the opposite side of the street, this serving to arrest its progress. The front head of the boiler started in the opposite direction to that taken by the boiler proper, and passed through two heavy walls into the wheel house. In the explosion all the other boilers in this group of five were thrown from their settings and tumbled about; the boiler house and engine houses, the dry house and part of the wheel house were completely demolished. The property damaged will be very large, but fortunately no lives were lost, though this seems a miracle. The sole fireman on duty had just crawled under one of the Harrison boilers for the purpose of cleaning it when the explosion occurred, and he was uninjured. In the room of the dwelling through which the boiler passed were two girls, one playing an organ. Both were precipitated into the cellar after the boiler had passed through the small room, but were uninjured beyond a few scratches. Quite a number of people were in this house. On Main Street a large number of people were returning from church, the boiler passing within a few feet of some of these people but striking no one.

An examination of the exploded boiler shows that the front head was blown almost squarely from the boiler, the rupture starting at the girth seam of the front head, and tearing along the line of rivets cleanly for the whole circle. I am of the opinion that the break started from the top of the seam, and must then have blown the head from the boiler in a very small interval of time, as the

rush of steam from the opening thus made projected the boiler like a rocket directly backward. An examination of the break fails to reveal any signs of a previous crack, and the break was evidently a clean one throughout its whole length. The shell is iron, a scant three-eighths, and there is nothing about the boiler or its construction that would lead to the conclusion that it was not able to stand the pressure ordinarily carried upon it, one hundred to one hundred and five pounds, nor does the boiler show any signs of low water. The fusible plug had been extracted from the head of the boiler, and could not be found. It was stated that the plug had been fused, but whether this is true or not I am unable to decide. None of the mill people could tell who had taken the plug from the boiler, and it could not be traced.

The events leading up to the explosion are as follows. This group of five boilers and two of the Harrison boilers were in operation, supplying steam to the mill at about fifty-five pounds pressure. These seven boilers were under the charge of a Pole, Joseph Szymanski, who had also to clean out the Harrison boilers as well as do the firing for the seven running. During the morning repairs were being made on the piping in the mill, and to effect these the steam was ordered shut off at the boiler room. Instead of doing this work himself, the piper ordered Szymanski to close the valves leading to the mill; but, as the fireman could not speak English, it was necessary to give this order by pointing out the valves to be closed. As the boilers were piped, the steam pipe from each of the five tubular boilers led from the steam side of the safety valve directly back into a common steam pipe that collected the steam for these five boilers, and each of these steam supply pipes had its own stop valve, by means of which any of the boilers could be shut off from the others. The main steam pipe to the mill led out of a T on the collecting pipe, passing directly over the third boiler, and had a stop valve in it by means of which this whole battery of five could be shut off from the mill. The steam pipe from the Harrison boilers led into this main steam pipe to mill quite close to the stop valve from battery of five. The steam pipe to the mill, and these connections, led away over the third boiler. There were therefore in close proximity over this third boiler, the one which exploded, three valves, one the stop valve of this boiler, another the valve that cut out the battery of five and another the valve that cut off the Harrison boilers from the mill. It was the two latter that the piper wished closed. These valves were closed and the repairs made in the mill, and word was sent to the Polish fireman in the boiler room to let steam on to the mill. In this handling of valves, about which he under-

stood nothing, the Pole made a mistake and closed the stop valve of No. 3 boiler and did not again open it, although he did open sufficient valves to let steam to the mill from the other boilers. This stop valve was afterward found, and was found closed, showing that, there being no outlet for the steam, it was bottled up in the boiler until it reached a pressure sufficiently high to burst the boiler. The safety valve failed to relieve the pressure, as it should have done. These safety valves are of the common lever type, a type very liable to sticking. An examination of safety valves on some of the other boilers at this mill shows clearly that they cannot be depended upon. Two had several bricks on the end of the lever for the purpose of additionally weighting it. One of the safety valves at the north part of this same mill, when the weight was lifted, refused to lift from its seat until it had been rapped; and another had the lever bent in the guide in such a way that it bound against the guide, and was wholly unreliable on that account. Judging from the condition of safety valves on other boilers in this mill, it is not surprising that the safety valve on the boiler that exploded had failed to work. Every evidence about this explosion is that of high pressure. The safety valves were not heard to blow that morning, and, such being the case, a high pressure must have resulted from the confining of the steam in this closed-in boiler with a fire on the grate, which fire had just been stirred by the fireman previous to re-entering the boiler setting he was cleaning. He had just entered this setting when the explosion occurred, and, as these boilers were undisturbed in the explosion, he was uninjured.

This explosion, therefore, in my judgment was caused by the ignorance of the fireman in charge in closing the stop valve of this boiler, and by the neglect to properly care for the safety valve of the boiler. An examination of this fireman, as well as could be done through an interpreter, reveals him absolutely unfamiliar with the very first rudiments in the care of the boiler. He had been doing work around the mill yard for about six months, and a few weeks before the explosion was put into the fire room, and on this Sunday had sole charge of the seven boilers he was running. In addition to his ignorance as a fireman was the added danger of his ignorance of the English language, which made it necessary to give him orders by gestures alone. No more dangerous condition of affairs could be imagined. If the explosion had occurred during working hours, loss of life would have been inevitable. I find many of the boilers at this mill are unprovided with safety fusible plugs, and these have been ordered placed upon them, in accordance with your directions.

EXPLOSION AT LORING TANNERY, WOBURN.

SIR : — In compliance with your order, I have made an inquiry into the cause of the recent fatal boiler explosion at Woburn, and beg to report as follows : —

The boiler was situated in the tannery of Loring & Jones, on Conn Street, Woburn, Mass., and was one of a battery of four. The fourth boiler from the street exploded at 6.50 A.M., April 1, blowing the rear sheet completely from the boiler, breaking the back head into two principal pieces, and pulling all the tubes out of the boiler. The rear sheet was flattened out and with the front head was thrown a distance of about two hundred feet. The tubes were thrown in all directions to the rear of the boiler house, the boiler house and hide house completely demolished and the main factory badly damaged. The iron stack and the chimney were both thrown down. The third boiler turned a half somersault, and the back head lay in about the spot the front head had been, and the rivets of one of the middle-girth seams were sheared for nearly half a circumference. The second boiler was pitched forward and the first boiler was practically uninjured. By this explosion five persons were killed and a large number injured, how many could not be definitely found out. The age of the exploded boiler could not be ascertained. It was of steel, five-sixteenths of an inch thick, sixty inches in diameter and fifteen feet long, and contained fifty-four four-inch tubes. It had the usual water-column connections, and a steam gauge, and was fitted with a lever safety valve. The fusible plug was smaller than the one-half inch prescribed by law, but was properly fitted in the back head. Each head had riveted to it three T iron bars, and each head was secured to the adjoining shell by six flat iron braces. The ordinary working pressure was eighty pounds, and the safety valves were set to blow at about that pressure. There was a hard patch on the fire sheet, directly over the furnace door. The boiler was supplied with water by a pump and an inspirator, and obtained its supply from a well or from the city pipes, as desired. The feed entered the boiler at the bottom of the front head, and the blow-off pipe was situated at the bottom of rear sheet, in the ordinary approved manner. The boilers were inspected and insured by the Hartford Steam Boiler Inspection and Insurance Company.

An examination of the exploded boiler reveals the above-named dimensions, and in addition that the boilers were slightly scaled on tubes and shell below the water line. In various spots on the boiler below the tubes there is some local internal corrosion, that

in some spots may be one-eighth inch deep; and by removing the scale fixed on the shell this corrosion is found to extend in a groove for some eight to ten inches, but not for its length at this depth. At the double riveted seam of the rear sheet internal corrosion is found to extend for ten inches along the girth seam and fourteen inches along the longitudinal seam. In one place this has reduced the thickness of the plate possibly one-eighth inch, but would not be deemed sufficient to condemn the boiler. The rupture evidently started in this corroded spot at the horizontal seam, shearing the rivets completely around this seam, and at the same time crossing along the horizontal seam, tearing the sheet between the rivet holes nearly to the back head, as well as tearing the head almost squarely in two along the third row of tubes. An examination of the ruptured sheet and the boiler itself soon after the explosion failed to reveal any evidences of overheating of the plate such as would contribute to any explosion. The safety fusible plug was found in its proper place in the back head of the boiler, and when I first saw it after this portion of the head was recovered the fusible metal was gone rather more than one-half its depth, but the water end was intact, uncovered from scale and in good condition.

The events leading up to the explosion are as follows. The boilers are numbered 1 to 4, counting from the street, No. 4 exploding. Boilers 1 and 2 had been internally inspected by the inspection company on March 23, and boilers 3 and 4 were blown off on Saturday night, March 30, ready for inspection the next day. The inspector entered the boilers somewhere about 10 o'clock, and after his inspection gave some directions to the day fireman about the removal of the scale observed. No directions were left concerning the starting of the boilers after the inspection, either by Mr. Loring, the inspector or the superintendent. During the day the boilers were filled with water by the day man to about one gauge. The boilers Nos. 1 and 2 were still under steam, and when the night fireman arrived, at about 5.30, in company with the night watchman, Nos. 1 and 2 were still under steam, and 3 and 4 were cut off by their steam stop valves, were cold, but had each about one gauge of water. The day man told the night crew that everything was all right, except to connect the boilers 3 and 4 when they got up steam. Nothing unusual occurred until about 10.30 that evening, when the fireman proceeded to build a light fire of barrel staves and other fuel under boilers 3 and 4, warming them up slowly. It is evident that somewhere between 12 and 2 o'clock some talk was had between the night watchman, Lyons, and the fireman, Saunders, concerning the connecting of the boilers, which both admit something was said about, but each

claims it was the other's duty to do. Lyons tells, however, that he did get up on the ladder to one of the boilers and turn on the connecting valve, No. 3, he thinks, that allowed the steam to flow from the boiler to the common main steam pipe to the mill, and later that he asked Saunders to see if the valve was on. Lyons could not, however, tell which way a valve wheel should be turned to open, had never touched this valve before, but says he determined it was open by watching the stem screw out as he opened or turned. As a matter of fact, however, this stop valve on No. 3 boiler was of a type in which the valve stem screwed into a thread in the gate of the valve, and the valve could be either opened or closed without so indicating by any lateral movement of the valve wheel or its spindle, so far as the eye could see. There was therefore no means of Lyons knowing from the valve itself whether it was opened or closed after he had finished with it. He states positively that he did not touch No. 4 valve, but thinks Saunders did; while Saunders states as positively that at Lyons's request he simply tried the valve Lyons was at work on, and thought it was open, and that he touched no other stop valve, but which boiler he did this upon he was unable to say. The conclusion must therefore be reached that something was done to No. 3 boiler concerning its stop valve, in an effort to connect it with the steam main, but that nothing was done to connect No. 4. Between half-past 2 and 3 o'clock Saunders undertook to pump water into No. 4 boiler for the first time that night, but found he could not do so, that the pump would not work. It would pump water into all the other boilers, but would not pump it into No. 4, although all the proper valves were opened in the ordinary way he had done on Friday evening. The water was then below the first gauge, and this alarmed the fireman, and Lyons started to find the superintendent, first going to the police station to find where he lived. The water at this time was not out of sight in the glass, and before he (Lyons) left, Saunders had pulled the fire from under No. 4 boiler. While Lyons was gone Saunders concluded to try the water again, and started the pump. This time he had no difficulty in getting water into No. 4, and by the time Lyons returned Saunders had over two gauges of water, the pump was stopped, and he was preparing to start another fire. This was a little after 4, as the watchman went immediately on his rounds, and the watchman's dials show he commenced punching the clock at 4.10. Mr. Parker, the superintendent, arrived at about 6.15, noticed all the water gauges to show water at a safe height, and observed the gauge on boiler No. 1 to be between fifty and sixty pounds, but did not look at any other steam gauge, as he supposed

all were alike, but did look at each water gauge. The engine was started slowly and fires pushed somewhat, as Mr. Parker feared the pressure would be too low at starting time; and, giving the order to blow the whistle, he started from the building, and a few seconds after, the boiler exploded. It is testified to by Mr. Biggar, the fireman of a tannery near by, that about 5.15 A.M. he heard a safety valve blowing at Loring's, and went over to see what was the matter, as it had occurred to him that if one was blowing all should. Lyons also remembers a blowing off. Biggar states that he talked with Lyons about it and got on No. 3 boiler, found connecting valve closed, opened it, and the blowing ceased. No other valve was blowing at the time. Lyons had been engaged about two weeks as watchman and helping about the fire room. Had no experience with boilers up to this time. Saunders had been at work three nights, and his previous experience consisted in occasionally helping to fire at another tannery and a saw mill in the South. Saunders did not go by steam gauge on No. 4 boiler, as he had been told by Lally, the day fireman, that it "hung up" and was unreliable. The inspector, however, reports finding it all right.

Taking into consideration the above-named events and the condition of the boiler, there are several theories suggested as to the cause of this explosion. One is that the water became low and overheated the plate, and it became injured sufficiently to cause the explosion at a pressure below eighty pounds; or that the water was introduced in a manner and at a time that would create such a sudden high pressure that the safety valve could not relieve it; or that this water ruptured the plate, and it afterwards exploded at a pressure below eighty pounds. The opposite theory is that the connecting valve between the boilers was not opened and the steam generated was not allowed to escape, creating a high pressure through the failure of the safety valve to work. The theory that the boiler was corroded enough to explode at its ordinary working pressure I will not consider, as I do not deem the corrosion serious enough to bring about any such result.

Taking the first theory, I find that the only suggestion of low water comes from the fact that there was some difficulty with the water, and because the fusible metal in the safety plug was partially gone. It seems clear to me that if any one point was strongly fixed in the minds of the two men running that boiler, it was that the water should not be allowed to get out of sight. They knew nothing else about the management of the boiler, but they did know that, and one of them was at work constantly about the boilers, for firing pressed tan bark requires constant presence

in the boiler room. There is no reason why the water should get low. As soon as it showed any indication of getting toward the bottom of the glass, the fires were drawn and word sent to the superintendent. From the manner in which I understand this boiler was set, the side setting was closed in along the level of the second row of tubes, which would bring the top of the fire line on the side of the boiler at least ten inches below the fusible plug. It is as a matter of fact a not uncommon practice to carry the fire line above the water line; and, though such a practice ought to be condemned, I know of boilers running in this way which have been run for many years without trouble or serious overheating of the plate. The only place, therefore, affected by any lowering of the water line for a distance of ten inches below the plug is at the back head of the boiler; and I do not believe it would be possible to overheat this small portion of the plate to such a high temperature as to bulge or injure it without completely melting the fusible plug, even if the necessary temperature could be obtained in the back connection, which is open to doubt, considering the fuel (pressed tan bark) that was being used. The plug is at the top of the fire line, in a position most favorable to receive the highest temperature in the back connection; and any protection which the steam might give the plug, as one statement has it, would just as surely be given the head in which it was placed, and if the plug was not overheated the head would not be; and if the head was heated above five hundred degrees at this point the whole plug would be, enough to soften and blow out the fusible metal, while it would not injure the plate. I believe, therefore, that the temperature necessary to seriously overheat the plate at this point would have completely melted a plug in as good condition as this one is, and that it is not melted is clear evidence that the plate was not so overheated. I believe, also, that the long time necessary to expose the side shell of the boiler to the action of fire with no water against it, after the water line had passed below the plug, would have given abundant opportunity also to melt the plug.

The water enters the boiler at the bottom of the front head, a long distance from the ruptured part; and when the pump was dug out of the ruins the steam valve supplying it with steam was found closed, showing that the pump could not have been pumping water at the time of the explosion; and the injector was not in working order, and had not been used for several weeks.

The theory that the steam was confined in the boiler and not allowed to escape is borne out by the testimony of those running the boiler that they did not open the stop valve to connect with the steam main. The fireman from the neighboring factory found one

of the boilers blowing off violently, and found the steam valve on No. 3 closed when it was supposed to be open. The blowing off of this boiler could be heard very distinctly at the neighboring factory, for the blow-off outlet led up through the roof of the boiler house. Lyons also testifies that he heard blowing off. This fact in itself shows that the stop valve on some boiler must have been closed, for as the boilers were being run it is reasonably certain that neither No. 1 nor No. 2 were blowing off. The fact that the blowing off stopped when No. 3 was connected would indicate that to be the boiler blowing off, but no one meanwhile took notice of No. 4. The pressure is further shown by the inability to pump water into No. 4 boiler. That there was no difficulty with the pump itself is shown by the fact that no trouble was experienced in pumping into either of the other three boilers. This pump was a Blake No. 5, and, with a steam cylinder area two and one-half times as great as the water cylinder, fifty pounds steam pressure would allow the pump to force water into any boiler with a pressure within it below one hundred and twenty-five pounds. Should the pressure rise above that point in any of the boilers, steam being fed from the common steam main, the pump would be unable to force water into that particular boiler, and the check valve on the feed pipe would prevent the water backing out of the boiler to the pump. I am of the opinion that this was the difficulty, — that the pressure at 3 o'clock was so high in No. 4 that the pump could not force water into it. Immediately after this trouble appeared the fireman drew the fires. By this action he cooled down this boiler, and by doing so necessarily lowered the pressure within it, and when after waiting some time he again tried the pump, it worked, as he states it did, simply because the pressure had fallen to a point where it was possible to pump water into that boiler, and in that manner he was able to bring the water line up to the two gauges he desired.

Again, if the connecting valve had been open it would have been necessary to pump water more frequently into this boiler to supply the loss of water by the escaping steam. The filling of the steam space with steam at a high pressure would lower the water line and lead the fireman to the belief that more water should be supplied; but if the boilers had been connected with the mill and an outlet provided for the steam generated, water would have had to be pumped into them more frequently than was done, just as was done with the other boilers, No. 3 when shut off losing its steam through the blowing of its safety valve.

That a high pressure would result from the confining of the steam in this manner there can be no question, but it depends upon

the assumption that the safety valve did not lift as it should have done. It appears in the evidence of the inspector that his method of trying the safety valve was to lift the lever from the valve stem and to take the stem in his fingers and lift it, presumably lifting the valve from its seat. In the majority of safety valves such action would lift the valve from its seat, and any corrosion or decided sticking of the valve to its seat would have been noted by the inspector. But if this particular safety valve was constructed as No. 3 was, the stem, instead of being secured to the valve proper, was independent, and its rounded end simply rested in a cavity on the top of the valve. The lifting of the stem therefore would not lift the valve from its seat, or be an indication that the valve was not then stuck. This safety valve has been broken up by the explosion, so far as I can discover, and there is now no means of ascertaining as a matter of fact whether it was stuck to its seat; but there are so many ways a valve of this character can refuse to work, that it is not surprising that it did not relieve the pressure. I do not believe the safety valve was tampered with in any way, but it is a common observation with engineers, as well as within my own personal experience, for a lever valve to fail to lift at the pressure set, though it has been lifted from its seat by hand at frequent and regular intervals.

From the above considerations I am of the opinion that low water had nothing whatever to do with this explosion, but that the connecting valve to main steam pipe on boiler No. 4 was not opened, and that the safety valve refused to relieve the pressure, which accumulated within the boiler until it had reached a point sufficiently high to burst it. The corroded spot being the weakest point, it started at that place.

Your attention is directed to what seems to me recklessness, little short of criminal, in employing, in the sole charge of a battery of boilers, men with no experience, such as characterized the men here employed. They knew nothing of the commonest and simplest matters underlying the safe running of a boiler, and there seems to have been no attempt to find out if they possessed the experience or the knowledge requisite; and, in addition, neither man seemed to know who had charge of the boiler room at that time. The engineer who looked after the engines was sick in bed; but had he been well he would not have been present that evening to connect the boilers, for his duty in the boiler room, it is expressly stated, was confined to occasionally blowing off the boilers and introducing some kerosene into them. The superintendent who had charge of the boilers was not an engineer. Cheap and ignorant help appears to have been employed to have charge of these boil-

ers and get them ready for use, and it would naturally be expected that these men might make some blunder that would precipitate upon innocent laboring men working near by the terrible catastrophe that did take place.

EXPLOSION AT LANGLEY'S HARNESS FACTORY, FALL RIVER.

SIR:—In compliance with your order, I have investigated the cause of the recent explosion of a boiler in Fall River.

This boiler was situated at the rear of the factory of Henry J. Langley, on County Street, Fall River, and was used to supply steam for power and heating purposes in the manufacture of loom harnesses. The boiler exploded at about 8.20 A.M., Friday, June 14, completely demolishing the wooden factory, so that hardly one stick stood upon another in its original position. About thirty persons were at work in the factory at the time, and of this number four were killed either in the fall of the building or were burned afterwards, the ruins catching fire immediately after the explosion. A large number of persons were injured, but none of those escaping death were dangerously injured.

The exploded boiler was built by the Cunningham Iron Works of Boston, in November, 1890, was of fire-box steel, one-quarter inch thick, forty-eight inches in diameter and sixteen feet two inches in length, of the horizontal tubular type, with double-riveted seams, and contained forty-nine three-inch tubes. The boiler was provided with the usual fittings, a water column, safety fusible plug in the back head, and a three-inch lever safety valve, the seat and valve of composition, and was set to blow at ninety-five pounds pressure. The boiler was also provided with an automatic damper regulator, set to close at ninety pounds pressure. The boiler was fed by means of an injector, the water supply coming in some instances from a tank that received the exhaust condensation from the building, and also fed from the city supply. The boiler was set in brick, closed in above the lugs, and a course of brick covered the top of the boiler. The boiler was made in three courses, a single sheet in each course, the double-riveted longitudinal joint coming above the lugs and within twenty-four inches of the top of the boiler. The boiler was insured and inspected when finished, and a policy of insurance and inspection placed upon it for three years, at the expiration of the policy the insurance and inspection not being renewed by the owner. The last inspection made by the inspection company was in August, 1893, and at that time no dangerous defects were observed. Since that time the boiler has received no regular inspection, and was run without special attention being called to it until six months

ago, when a tube gave out and was replaced by a Fall River boiler maker, but he gave the boiler no extended inspection. The engineer was a man not capable of making a proper inspection of a boiler, and does not claim that ability, claiming instead that such work was not expected of him, nor did he ever claim to be able to do it. The boiler therefore has not been internally inspected since August, 1893, except the slight inspection of the boiler maker when putting in a new tube; and the only point that developed at this time of special interest was the presence of grease in considerable quantities in the boiler, grease being used in lubricating the engine cylinder, returning with the exhaust condensation and being pumped into the boiler with the water fed it from the return tank. The presence of this grease was evidently the cause of frequent foaming of the boiler, as reported by the engineer; and because of this foaming the water line was seldom carried above the second gauge cock, and because of the grease the engineer had lately used more of the city water and less of the exhaust returns. No special effort was made to get rid of the grease from the boiler beyond the use of the blow-off, which the engineer states he used every other day before starting up, to blow out such sediment as might have collected during the night on the bottom of the boiler. The custom of the engineer, according to his statements, was to lift the safety valve several times a week, and during the week in which the explosion occurred the safety valve had been blowing under steam pressure, relieving itself at about the proper pressure as set.

The events leading up to the explosion are few. The boiler was started at the usual time, and the engine started as usual. During the morning it became necessary to supply the boiler once with water, and this was fed through the injector, which warmed it, until the water showed two gauges in the glass, when the injector was stopped, some fifteen minutes before the explosion. The engineer has other work to do besides caring for the boiler and engine, and when he left the boiler room immediately before the explosion he observed the steam pressure to be between eighty-five and ninety pounds, and he had barely left the room when the explosion took place. The engine was running at the time. The engineer states that the plant was running in its ordinary way, nothing unusual had occurred during the morning, nor had anything been done to the boiler the night before; the steam pressure was as ordinarily carried and the water at its average height.

An examination of the exploded boiler shows that the rupture took place at the longitudinal seam of the middle course, extending close to the edge of the lap, for the most part through the

solid sheet clear across the plate, continuing around both girth seams, stripping the middle sheet cleanly from the boiler and flattening it out. The front portion, with a single tube in its head, was projected in the direction of the Stafford mill; and the back portion, with the rest of the tubes in its head, was sent a short distance in the opposite direction. The fusible plug was found in good condition in the back head of the boiler, the fusible metal unmelted; and this fact, the drenching of the Stafford mill with water from the boiler, and other circumstances, indicate that the boiler was amply supplied with water, and that low water had nothing to do with this explosion. The safety valve I have examined and find it perfectly free, exhibiting no evidences of corrosion on its valve or seat, or any tightness of the valve stem, or any condition that would cause it to be inoperative, aside from deliberately tying it down. I am satisfied, however, after considering the possibility of overpressure, from the evidence of the engineer, the work the boiler was doing, the assistance of the damper regulator and from the character of the explosion, that the explosion was not caused by excessive overpressure upon a boiler in good condition.

An examination of the initial rupture along the longitudinal seam of the second plate shows every evidence of having been previously cracked, and present before the explosion of the boiler. The plate was badly shattered along the line of fracture, and had all the appearances of a burned piece of steel, or one that was defective in being too hard and brittle, and possessing none of the ductility necessary in boiler steels. For further examination, a piece along this seam was cut out, a test piece taken from it, within four inches of the fractured edge, and tested by Prof. E. F. Miller at the Massachusetts Institute of Technology. His report shows that the steel possessed a tensile strength of 60,150 pounds per sectional inch, an ultimate extension of 24.5 per cent. in a length of two inches, and a reduction of area of cross section of 28.5 per cent. The result of this test shows that the plate possessed the tensile strength required in good boiler construction, and the elongation or ultimate extension was equal to that usually specified. The reduction of area, however, is less than is now stipulated for boiler work; but the result of this test shows a plate that would have been commonly acceptable at the time this boiler was made. Pieces from this plate were also bent double, cold, and hammered flat close together without showing a flaw, and other physical tests submitted, indicating, so far as these tests can, that these particular pieces of plate were suitable and safe plates to use in the construction of a boiler.

I am of the opinion that the crack along the lap of the longitudinal seam of the second plate was the cause of the explosion, and that this crack has been extending and deepening from time to time, until it became extended enough to be unable to hold the ordinary working pressure of the boiler. The plate was lapped so as to be calked from on top, the crack being in the outside sheet of the lap and opening from the inside, but not extending in any place through the plate. The questions to consider are, whether the plate was of good material, whether the crack was in the plate at the time of manufacture, or whether the plate was injured in the working of the boiler, burning the plate sufficient to cause it to crack under its ordinary working conditions. Boilers with considerable accumulations of grease or deposit, as this one had, within them, are frequently burned, and such cases are commonly met with by the inspector. In this case, however, the lapped joint was entirely out of the fire, and above the closing-in line of the setting. The only possible way for heat to get to this portion of the boiler would be by the springing away of the setting, allowing the heat to pass up the sides of the boiler. From the position of the burned portion of this sheet and the setting, I am of the opinion that such action would not take place to any degree sufficient to ruin this boiler plate. If the joint was exposed to the direct radiation from the fire, and covered with grease, as this might possibly have been, a burning of the plate could be expected; but from the position of this joint and the character of the setting I do not believe it possible that this plate was burned by heat from the fire in operating the boiler.

The tests of the plate show what would be considered a good plate for boiler work, yet the fractured portion is obviously defective in character. I am of the opinion that the plate was burned or injured when rolled, and that, though for the most part of good material, this portion was fatally defective. It is not an uncommon occurrence at the rolling mill to find plates plainly defective upon examination, and such examination is usually made at the rolling mill, as well as by the boiler maker in making the boiler, and rejected by him if showing any defects. There is no reason to believe that this defect had developed in the plate so as to be apparent when the boiler left the boiler maker, but, on the contrary, there is every reason to believe that the boiler was apparently in good condition when it was finished and submitted to the usual hydrostatic test. The defect in the character of the plate, however, must have existed, but developed afterwards during the working of the boiler in its ordinary use. Such defects are not uncommon, and are frequently found by boiler inspectors; and

the conditions that cause them to appear and extend may be the subject of surmise, but no positive knowledge seems to exist as to their exact cause. The lap at the joint undoubtedly influences to cause the fracture of a plate not suitable for boiler use, while not affecting a ductile plate; and the inspector has always in mind the possibility of just such a fracture existing in any boiler inspected as did exist in this one, and a proper inspection will therefore discover and remedy the danger. How long this fracture had been in developing it would be impossible to tell, but it probably had not appeared beyond the lap when last inspected, or it would have been discovered at that time if the inspection then made was as thorough as is claimed for it. The fracture is very close to the lap and extends for a considerable part beneath it, yet I believe it could have been discovered had the boiler been regularly and properly inspected. Boilers often run many years without dangerous defects appearing upon them, while others show very dangerous defects within a short time after being put in use, and both may have been made with equal care, so far as the boiler maker is concerned. It is to find this unexpected element that periodical inspections ought to be made, for neither the owner nor inspector can tell that a boiler will not develop some of these dangerous weaknesses.

Considering the above and other facts bearing upon this explosion, I am of the opinion that this boiler exploded at a pressure not far from its working pressure as ordinarily carried, and was caused by a fracture along the lap of the longitudinal seam of the middle plate, which continued to extend and deepen until the boiler at this point became too weak to withstand the pressure regularly put upon it; and that the fracture was not caused in the operation of a sound boiler as this was set and run, but that the plate must have been defective in certain parts before it was delivered to the boiler maker, though I can see no reason to find that the boiler maker knew or suspected that the plate was defective in any way.

EXPLOSION AT NEW BEDFORD MACHINE SHOP.

SIR:—On Aug. 21, 1895, the duties of my office called me to investigate the cause of a boiler explosion which occurred on Aug. 20, 1895, at 4 o'clock P.M., on the premises of Edward L. Besse, situated at 272 Water Street, New Bedford, Mass., called the New Bedford machine shop.

I found the steam plant consisted of two horizontal tubular boilers, forty-eight inches diameter, sixteen feet long, made up or built in five courses; each course consisting of two sheets or

plates, single riveted, pitched two inches, three-fourths inch punched holes with eleven-sixteenths inch rivets; the shell plates were nine thirty-seconds inch thick, heads three-eighths inch thick, containing fifty three-inch tubes, with steam drum connecting the two boilers at rear end, with stop valve between steam drum and boiler.

The working attachments were one three-inch safety valve (lever), weighted to seventy-five pounds per square inch; one steam gauge in fire room and one in engine room, connected to steam drum; four gauge cocks for finding the water level, located in front head, one three inches above top row of tubes and the other three were spaced four inches apart. The feed water was supplied by an injector of the Schutte and Gouging pattern (No. 4), also city pressure at sixty pounds delivered into boiler by entering front head at right-hand side.

These boilers, as near as I could learn, were built by the New Bedford Boiler Works about twenty-eight years ago. They were located in the rear or side of main building, in an independent house or shed, which also contained the engine. The boiler which exploded was the No. 2 or right-hand boiler, and in its course it demolished the shed or engine house which contained them, the boiler severing or separating itself into three distinct parts. Part No. 1, containing or consisting of front head, two and one-half courses and all the tubes, passed through a stone wall two feet thick, resting partly on the stone wall and on an iron planer in machine shop, about twenty-five feet from its original position (this part was turned upside down). Part No. 2, consisting of part of third and fourth courses, was found in the fire room; it contained the man-hole plate, which was intact. Part No. 3 consisted of back head and part of No. 5 course; the head was bent double and the fifth course was straightened out.

The fusible plug I removed from the back head of exploded boiler, and conclude that the boiler had sufficient water, and did not explode from this cause. The body or casting of safety valves I found to be broken at neck of casting; the valves or disks I could not find. I found one steam gauge, and tested the same and found it to be practically correct. The exploded boiler had tubes thimbled to the amount of fifteen, also had four tubes plugged or stopped, showing defective tubes. The heads were braced to shell by nine one and one-eighth inch round iron, riveted to the head and shell, of the crow-foot pattern.

Externally the boiler was corroded above the fire line, reducing its thickness from nine thirty-seconds inch to one-eighth inch about the longitudinal seam on fifth course, where in my opinion

the original rupture occurred. The rupture on No. 3 sheet showed a fracture or old defect, running to various depths around a part of circumference of said sheet.

The exploded boiler was under the charge of Edward L. Besse, he acting as engineer, also attending to his other duties in machine shop, employing Peter Healy as fireman (who has died from the effects of explosion), in the absence of Edward L. Besse's father for the day.

The boiler was under repairs the previous day, and had started up at 10 o'clock on the day of the explosion; consequently it had been in operation from 10 o'clock A.M. to 4 o'clock P.M., when the explosion took place.

On questioning Edward L. Besse, he said that he had not been in the engine room or boiler room for two hours previous to the explosion, and consequently could not tell what pressure of steam or how much water there was in the boiler about the time of the explosion.

The boiler was not insured by any authorized boiler inspection and insurance company, nor was it inspected by any of the State officers.

Internally the boiler did not show any defects only what were due to age and wear, being free from sediment, scale or corrosion.

Boiler No. 1 or left-hand boiler was thrown from its setting, separating itself from all its connections, and lies on the wreckage of its own setting.

As an aggregate of the aforesaid data, it is safe to say that the prime cause of the boiler explosion was brought about by a general deterioration caused by neglect, age and wear, with an overpressure for strength of said boiler.

REPORTS OF ACCIDENTS.



REPORTS OF ACCIDENTS IN MANUFACTURING AND MERCANTILE ESTABLISHMENTS.

According to the requirement of the statutes, I present herewith an abstract of the record kept of the reports of accidents which have occurred during the year in manufacturing and mercantile establishments. From these reports are given the various causes leading to the accidents, and as far as possible and in a general way the nature and extent of the injuries received therefrom. This law I am convinced is meeting with a ready compliance on the part of those whose business renders them subject to its requirements; and, while there may be a few exceptions in this particular, I feel assured that such are due to a lack of knowledge regarding the provisions of the law. However, when all such parties have been notified as to their legal obligations in this matter, they have invariably made a cheerful and ready response.

Chapter 260 of the Acts of 1886 was the original enactment relating to the reports of accidents in manufacturing establishments. A later statute provided that the proprietors of all mercantile establishments be required to report accidents in like manner. These acts were included in the revision and codification of the inspection and labor laws by the General Court in 1894, and now constitute sections 8, 9 and 10 of chapter 481 of the Acts of that year. The said sections read as follows:—

REPORTS OF ACCIDENTS.

SECT. 8. All manufacturers, manufacturing corporations and proprietors of mercantile establishments shall forthwith send to the chief of the district police a written notice of any accident to an employee while at work in any factory, manufacturing or mercantile establishment operated by them, whenever the accident results in the death of said employee or causes bodily injury of

such a nature as to prevent the person injured from returning to his work within four days after the occurrence of the accident.

SECT. 9. When notice of any accident is sent to the chief of the district police under the provisions of section eight of this act he shall forthwith return to the sender of such notice a written or printed acknowledgment of the receipt of the same.

SECT. 10. The chief of the district police shall keep a record of all accidents so reported to him, together with a statement of the name of the person injured, the city or town where the accident occurred and the cause thereof, and shall include an abstract of said record in his annual report.

There were 942 cases of accident reported as having occurred the present year. Of this number there were 310 persons injured, due to causes which it was hardly possible to contemplate in the enactment of this law. The persons thus injured were not at the time engaged in operating any kind of machinery or any motive power whatever. The accidents were due to those innumerable causes which constantly exist outside of the limits of factories and workshops as well as within such places, and are of that nature which it would be impossible for any legislation to avert a recurrence. In showing the different causes from a list farther on this class of mishaps will be more definitely explained.

There were 36 fatal cases: 10 of these resulted from being caught and carried around shafting, 5 persons were crushed to death by being caught by ascending or descending elevator cars, 3 were killed by falls through elevator wells and 2 by falls down hatchways. There was 1 fatality each from the following causes: caught in a machine used for crushing and breaking hemp; drawn onto a grinding stone; struck on head by a plank which was thrown from a doorway in third story of a building; struck by a timber thrown from a circular saw; caught and drawn in under a revolving cylinder; while engaged in moving a car loaded with moulds, some of the moulds tipped over, fatally crushing a workman; fall from a ladder; knocked from the top of a car by coming in contact with a bridge; fall from a platform; slipped and fell between mule carriage and reel frame, breaking back and causing paralysis; struck by piece of balance wheel which had burst; received an electric shock; drawn into a

machine used for forming red-hot pig iron; bursting of a fly wheel attached to a saw; explosion of a steam chest or box. The explosion of a boiler, which occurred at Woburn on April 1, caused 5 deaths, and 12 persons were more or less seriously injured.

I have arranged a list showing the various causes leading to the accidents, which is here given. Among those not enumerated are included 152 cases in each of which the person was injured while at work loading or unloading cars or shifting the same, working about derricks, in hoistways or hatchways, or engaged in moving machinery, — in fact, all kinds of work done by laborers. Added to these were 49 who were injured by falling, many such by slipping on the wet floors or by descending stairways. Twenty-one received their injuries by falling from ladders and temporary staging, and 28 got splinters or nails in their feet. About 50 others were struck in various ways by heavy articles falling from trucks or from overhead. As the statute is general in its application, making no distinction as to causes, these reports are received and recorded with the others in the order of their coming. Below is the list: —

Injured by machinery, mainly in woollen, cotton and paper mills, shoe factories and electrical works,	389
Injured by machinery in machine shops, iron works, planing mills and other mechanical establishments (24 of these were by circular saws),	95
Injured by elevators,	31
By being caught between elevator car and flooring (in most cases while riding on car),	26
By dropping of elevator car,	5
Injured by belting, shafting and pulleys,	37
Injured by scalds and burns (chiefly from molten iron and dye vats),	39
Injured by explosion of gas,	3
Injured by the bursting of pulleys,	2
Injured by flying shuttles (included in figures first above given),	13
Injured while cleaning machinery in motion, and removing bobbins, waste, etc., from running machinery (included in figures first above given),	116
From causes not here enumerated,	310

The fatal cases (36 in number) are not included in the foregoing list.

From the figures shown in this list it will be seen that, of those persons who were injured while engaged in operating machinery, *116 were thus injured while attempting to clean the machinery when it was in motion, or were trying to remove bobbins, waste or some other articles which had fallen into or become entangled in the running machinery.* This number is *nearly 30 per cent. of the entire number (389)* injured while operating machinery. Last year the number of persons injured in this manner constituted about 39 per cent., or nearly two-fifths of the entire number then reported. That such a large proportion suffer injuries solely through their own thoughtless acts is matter for deep regret, showing, as it does, that ordinary care on their part would avert much suffering and loss.

There were 769 males and 173 females injured. The greater part of the female portion were injured by machinery. The cases not enumerated were those almost entirely of the male portion.

With the exception of some few cases which are here referred to, the injuries sustained were not serious in their nature. Outside of the fatal cases, about two-thirds of the entire number were confined to injuries of the arm and hand, the number thus injured being 572, and of this number 337 cases were injuries to the thumb and fingers. In each of 18 cases total loss of one finger or more was sustained, in 1 of these four fingers on one hand were lost, and in another case a loss of three fingers. There were 3 cases in each of which one hand was lost; 11 cases showed the arm or wrist to be broken; in each of 8 cases the leg was broken. With the exception of 3 cases, in each of which one eye was lost, injuries about the head were of a slight nature. There were 8 cases where ribs were broken. In only a few instances the injuries to other parts of the body proved serious.

In one case a boy who was employed in a paper mill went to the elevator and leaned over the guard rail of the elevator shaft, when he was struck on the head by the descending elevator; but he managed to withdraw his head so that only the lower part of his face was caught, and the inside of his mouth, extending partly across the front and the right side, was badly torn away from the teeth and jaw bone. The

doctor who attended him reported that recovery would be rapid, and that he would not be disfigured.

A case occurred where a man attempted to stop an elevator, as it was ascending, at the second story. In doing so his left arm was caught between the brickwork and elevator platform, lifting him up and holding him by the arm. The space between the elevator and brickwork was about one and seven-eighths inches. The injury to the arm was between the shoulder and elbow. He was sent to the hospital, where they reported that no bones were broken, the injury consisting of a very bad flesh wound.

An operative who was employed in the dye house at print works was in close proximity to a revolving shaft, when the loose ends of a piece of cloth which he had tied around his waist were caught by the shaft, carrying him around it. He was severely bruised on several parts of the body, but the doctor who attended him reported that there was no serious injury.

There was a case where an operative had just finished stripping a card, and was about to start it up. He put the belt on driving pulley on main shaft first, and then attempted to run belt on pulley of card. His hand and arm were drawn in between the pulley and belt, and he was carried around with the belt and thrown several feet, striking on his head. He was taken to his boarding-house, and the doctors who attended him thought at first that he was fatally injured, but subsequently hopes were strong for his recovery.

In each case where the result was fatal an inspector of this department investigated the same, and obtained as far as possible the facts connected with such case, which are given here in substance, as taken from the inspector's written report. The name of the person fatally injured, the city or town and the establishment where the accident occurred, are given in each case, as follows:—

EDWARD T. KEEVIN, Worcester. Washburn & Moen Manufacturing Company. Date of accident, February 7. It was caused by shafting. The shaft was in a shed at the north end of the works, and Keevin, who was engaged as an oiler, had put a ladder in position for the purpose of oiling the shaft, and had

ascended the ladder. He had some waste in his pocket, the end of which caught on the shaft and drew his coat with it, causing him to be drawn up and carried around the shaft till his clothing was stripped from his body, when he fell to the ground. His arms and leg were broken, and he sustained other injuries which caused his death almost upon his arrival at the hospital. There were no pulleys or belts on the shaft where it was running through the shed.

PETER COYLE, Boston. Pearson Cordage Company. Date of accident, February 15. Coyle was employed to operate a machine which was used for breaking and crushing hemp. His left arm and head were caught and drawn between the roll and chain of this machine. When he was taken out a doctor was called and pronounced him dead. Coyle must have been overcome by a weakness of some kind, and fallen into the machine, as he made no outcry. Had he made such, in all probability the machine could have been stopped in time to avoid a fatal result.

WILLIAM WOLSTENCRAFT, Attleborough. Howard Bullough American Machine Company. Date of accident, February 15. The deceased was engaged as a machine grinder, and was at work at the grinding stone, when he rose to shift the dowel he was holding. It is supposed that he lost his balance as he was rising, as in making the shift he was carried on the stone, his clothing presumably being caught on the side of the stone and drawing him over the back end, his neck striking the edge of the stone pit. His neck was dislocated and his left arm was broken. The doctor was summoned, who pronounced death to have been instantaneous.

REDMOND MCGRATH, Boston. Rice, Sayward & Whitten. Date of accident, March 6. It occurred at an elevator at the store No. 101 Arch Street. No one witnessed the accident. The body of McGrath was found hanging by the head, caught under the chin, between the fourth and fifth stories of the building. He was removing some empty cases from the fourth to the fifth story by way of the elevator, and probably tried to stop the ascending car and was caught by same as it reached him. Death must have been instantaneous, as men at work near the place heard no sound.

WILLIAM NEWTON, East Boston. Jewett Lumber Company. Date of accident, March 15 or 16. This was the case of a man who was found dead on the floor of a hatchway when the door to the same was opened on the morning of March 16. The man had

formerly worked for the company, and was seen about the yard on the afternoon of the 15th, when he seemed to be somewhat under the influence of liquor. It is supposed that, before the hatchway and building were closed for the day, he entered the building and went to the loft to lie down and sleep. It is thought he either rolled off the loft into the hatchway or arose and in the darkness walked or stepped in, falling a distance of twenty-five feet and striking on his head, killing him instantly.

PETER LADOUCEUR, Holyoke. Geo. C. Gill Paper Company. Date of accident, March 29. Ladouceur was foreman in the calendering department. The accident occurred about nine o'clock in the evening. A belt which was off the pulley had to be replaced. A helper requested that the speed be shut down so that the belt could be put on, but Ladouceur, who was familiar with the premises, declared that the belt could be put on as it was without stopping the speed, and asked the helper to try and do so; but the latter refused, saying that it could not be done, to which Ladouceur replied that *he* could do it. The helper urged him not to attempt it; however, as he insisted upon it, the helper went for a lantern, as the place was dark. Just as he reached the place where the lantern was, he heard Ladouceur's cries, and, rushing back, saw him on the floor, his arm having caught in the belt, carrying him around the shaft and throwing him to the floor. His injuries were such that he died a few minutes after the accident.

PHILIP DERRIG, Fall River. Sagamore Manufacturing Company. Date of accident, March 31. Derrig was passing along the rear of the mill, when he was struck on the head by a plank, killing him instantly. The plank was thrown through a doorway in the third story of the building, where workmen were engaged in removing a staging. No one, so far as is known, witnessed the accident, the body of Derrig being discovered by a man who lived in a house in the rear of the mill.

AUSTIN CLEMENT, FRANCIS McMAHON, PATRICK MCGONAGLE, PATRICK LALLY, PATRICK RILEY, Woburn. Lovering & Jones. Date of accident, April 1. This was the case of a boiler explosion which occurred on the morning of April 1, and which resulted in fatal injuries to the five persons whose names are here given, and injuries more or less serious to twelve others. This case was investigated by Mr. Hawley, State inspector of boilers, who made a report on the same, which he filed in this office.

JOHN HUME, Littleton. Avery Lactart Company. Date of accident, April 5. Hume was at work at the third story of the building, and was on a bench attending to the filtering bags. These bags hung a short distance from the ceiling, and extended along the side of the room to the elevator well. No other person was on the same floor with Hume at the time of the accident. Hume, in some manner unknown, fell down the elevator well, a distance of twenty-six feet. The first intimation of the accident was given to an employee on the second story by hearing the noise caused by the fall, and he ran to the elevator well, and, looking down, saw Hume lying on the floor below. His skull was fractured and his right side paralyzed. It was thought that he could not recover. Later information elicited the fact that he died from the effects of his injuries.

JOHN SHIELDS, Boston. Wade & Reed Co. Date of accident, April 15. This accident was caused by shafting. The shaft extended the length of the building, and was about three feet from the wall and about five and one-half feet from the floor. Shields stepped in front of the shaft and leaned out of a window to tell a teamster where to back up his load. The next thing known, he was seen caught by the shaft and carried around with it. The engine was at once stopped, but too late to save the man's life, as he was dead when taken from the shaft. He had been employed by the company about three years, his occupation being tying bags.

WILLIAM SULLIVAN, Fall River. American Printing Company. Date of accident, April 23. This accident was caused by shafting. Sullivan was employed in the bleach house. A belt running from the main shaft and connected with his machine slipped from the pulley, and Sullivan, in order to put on the belt, mounted a platform under the shaft. While thus occupied the belt broke and wound around the shaft, catching him by the left arm and whirling him around. The speed was stopped, but Sullivan's body had dropped to the floor, leaving the left arm, torn from its socket, on the shaft. He was taken up terribly mangled, his ribs and limbs broken, and was conveyed to the hospital, where he died shortly after his arrival. He was but nineteen years of age.

ERIC (or EMIL) JOHNSON, East Boston. S. F. Manson & Co. Date of accident, April 24. Johnson was at work at a circular saw. He was not employed by Manson & Co., but worked for D. D. Kelley & Son, and was sent to have a piece of timber

sawed. While engaged in this, a piece of the timber fell off, striking the large revolving saw, and the timber was thrown from the saw and struck Johnson on the side of the head, breaking his jaw and cutting his neck badly. He was sent to the hospital, where he died on May 7, the immediate cause of death being hemorrhage of the throat.

CHARLES BEAN, Worcester. Dean Whiting Elevator Company. Date of accident, May 1. Caused by shafting. Bean was on a pile of lumber, getting out a piece he wished to use, and in doing so he backed under the shaft, which caught his clothing, and he was drawn onto the shaft and whirled around. He was almost instantly killed. The space between the top of the lumber pile and shaft was about two feet. He was told by the foreman not to get on the pile, and he (the foreman) would send a man to take down the lumber from the end of the pile; but the injunction was disregarded.

CHARLES AYER, Southbridge. Southbridge Printing Company. Date of accident, May 4. Ayer was engaged in lowering cases containing goods down the hatchway and onto cars for shipment. He was fastening hooks to the cases, when, in attempting to adjust the hook square with the case, and standing between the case and the hatchway, his hook slipped off, and he fell backward with great force, striking the frame of the hatchway, probably, and falling below, a distance of about fifteen feet. His neck was broken. The deceased had been employed in this establishment about thirteen years.

JOHN LILLIS, Chelsea. Magee Furnace Company. Date of accident, May 8. Lillis was not employed in the room where the accident occurred, but was a moulder, and came into the cleansing room, where there was a revolving cylinder machine for cleansing rough castings, for scrap or waste iron. In stooping down to pick up this iron, he came too near the machine, which caught his clothing and doubled him up underneath. The revolving cylinder with its numerous bolt heads tore four scalp wounds, caused contusion on the back of neck and shoulders and fracture of spine near the neck, causing paralysis, from which he died the following day.

EVERETT LE CLAIR, Lowell. Tremont and Suffolk Mill. Date of accident, May 10. Le Clair was employed as a filling hand, and, having gone for some water, was returning with the same,

passing through the elevator well at the first story, where planks had been laid across for the purpose of removing a turbine. As Le Clair attempted to cross on the planks, he was struck by the descending elevator car, crushing him beneath it and breaking his neck.

ERNEST ENGSTROM, Lynn. General Electric Company. Date of accident, May 14. Engstrom was assisting two other workmen to move flat car loaded with moulds, using for the purpose a long pinch bar. Two or three of the moulds toppled over, striking Engstrom and crushing him to the ground. He was removed to the hospital, where he died one hour and a half after the accident.

ATTARIO PAZZI, Boston. No. 15 Chardon Street. Date of accident, June 8. Pazzi had, on the morning of June 8, bought out a hat manufactory on the sixth floor of the building No. 15 Chardon Street, and, being a stranger in the building, knew nothing about the working of the freight elevator. It is supposed that he desired to use the elevator to descend, and, looking up, saw that the elevator was at the floor above him, some ten feet, and pulled the rope, at the same time leaning over the guard to the elevator well, and in all probability looking down the well, as he was found with his neck broken between the platform of the elevator and the guard to the elevator well, causing the safety catches to spring out and hold the elevator. One of the workmen in the building sawed the guard, and Pazzi was released from his position, and upon examination was found to be dead.

CHARLES SAWYER, Haverhill. Establishment of Charles Poor. Date of accident, June 24. Charles Coon, an employee of Poor, and who operated a McKay stitcher, proceeded to adjust the belt that ran his machine. Sawyer, going to his assistance, went up a ladder to adjust the belt to the pulley on the shaft that was in motion; his jacket was caught by a set screw in a collar next to the pulley, and he was drawn up between the wall and the shafting, his neck being broken, from which injury he died on the morning of June 25.

ISAAC H. PAGE, Boston. Hotel Westland. Date of accident, June 30. Page was a resident of Hotel Westland. On the evening of June 30, while on the fourth floor of the hotel, he opened the door of the elevator so that some friends of his could descend in the same. While waiting at the entrance to the elevator, his back turned towards it, the elevator moved noiselessly to the floor above; as he stepped backward, he went through the opening and

fell to the bottom of the shaft, fracturing his skull and hip and breaking one of his legs in four places, from which injuries he died the next day.

P. E. PENDER, Boston. No. 36 Columbus Avenue. Date of accident, July 1. This was another elevator accident. Pender was on one of the upper floors of the building No. 36 Columbus Avenue. He ran to the door of the elevator well, expecting to reach the elevator in advance of his shopmates. The elevator had been started up another story. In his anxiety to be first he stepped off into space and went to the bottom of the well, killing him instantly.

THOMAS HYDE, Holyoke. Valley Paper Company. Date of accident, July 11. Hyde was employed as a carpenter, and was staying up braces to a platform, to carry dust pipes, said platform being outside the mill. He was standing on a ladder, raised about nineteen feet from the ground, and was at work driving spikes into an addition to the main brace. He had driven a spike successfully, using a hatchet for the purpose. He raised his arm and made a vigorous blow, but missed his mark; the force of the blow caused him to lose his balance, and he fell to the ground. His spine was severely injured, also his right side, besides internal injuries. He died three days later.

MARTIN VOLCORICH, Wareham. George F. Blake, Jr., Iron Works. Date of accident, July 31. Volcorich went in between the squeezer (which is a machine for forming red-hot pig iron in shape to be put through the rolling mill) and some gears to turn a valve, and, this being the last squeeze of the run, was in somewhat of a hurry to leave the works, and in making a jump his foot slipped and was caught in a gear, into which he was drawn and literally ground in pieces.

HERBERT LAWRENCE, North Bellingham. Ray Woollen Company. Date of accident, August 5. Lawrence, while in the act of adjusting a two-inch belt to a ten-inch pulley, felt faint, and to save himself from falling (he being on a step ladder) threw his arm over the shafting; which was making about one hundred and seventy-eight revolutions per minute, and was immediately carried around the shafting, crushing his ribs on the left side, which undoubtedly penetrated the heart, causing instant death.

PATRICK SULLIVAN, Lawrence. Everett Mills. Date of accident, September 4. Sullivan had been loading goods in store-

house into a car, when he climbed on the car to brake it. Two horses were hitched to the car, and started on an up grade from the storehouse. The bridge was about two hundred and fifty feet from the storehouse door. Sullivan was facing the rear of the car, with his back towards the bridge. He had no warning of danger, and was swept from the car, falling on his head on the iron rails and sleepers. He was picked up unconscious, and while at the hospital, on the night of the 6th instant, he died from the injuries received.

ERNEST W. HALL, Boston. James Dooling. Date of accident, September 9. Hall was employed by Wm. Prior, Jr., Faneuil Hall Market, as a teamster. He was at the rear entrance of Dooling's store, on Mason Street, for the purpose of delivering some supplies. Hall walked into the elevator well for the purpose of lowering the car, when, it being in use and descending, it struck him, carrying him to the floor of the well, crushing his face and head beyond recognition. An examination showed that he had received multiple injuries, almost any one of which was sufficient in itself to cause death.

JOHN RICE, Montague, at Turner's Falls. Keith Paper Company. Date of accident, September 12. Rice was employed as a helper in the engine room of Keith's Paper Company. The windows of this engine room, or one part of them, opened onto a platform. At about eight o'clock in the evening Rice raised one of the windows and stepped out upon the platform, for some unknown reason. In doing this he made a misstep and fell about twenty feet, striking his head and breaking his skull. He died from the effects of the fall without regaining consciousness.

JOHN SCHULTZ, New Bedford. Potomska Mills. Date of accident, September 30. Schultz was carrying a carpenter's horse in the alley in the mule room in No. 2 mill, when the horse struck the side of the building and Schultz slipped and fell between the mule carriage and an iron frame, and was crushed. When the mule was stopped Schultz was found incapable of motion, although conscious and in no pain. He was found to be paralyzed from the shoulder down. He was conveyed to the St. Luke's Hospital, where he died October 2, from the effects of the injury received.

GEORGE McCLYSTER, Walpole. Frank A. Fisher's establishment. Date of accident, October 3. This accident occurred in the barn of Frank A. Fisher (a wood and coal dealer), where

cord-wood was sawed by power. A small engine had just been put in to furnish the motive power for the saw. It had been pronounced by the machinist as being all right. Fisher saw that the engine was gaining speed, and, becoming alarmed, began to shut off the steam, when the balance wheel of the saw shaft burst in three pieces, said wheel being about twenty-eight inches in diameter. One of these pieces went through the floor; one flew straight upwards, cutting a six-square joist completely apart; while the third piece went through the back of the barn, cutting off McClyster's left leg just above the knee. He was taken to the Massachusetts General Hospital, where he died October 5.

GUSTAF OLSON, Boston. Blanchard Machine Company. Date of accident, October 9. Olson was employed running wires for overhead lights. Was working on a high step ladder, when, to get at his work better, he mounted on a post hanger over a running shaft. After finishing what he had to do there, he attempted to get down. In reaching over to put his foot on the ladder he slipped and fell direct on the moving shafting. His clothes were wound up on the shaft and he was carried around it; his clothes gave way, and he fell to the floor, a distance of about eight feet, striking on his head. There was quite a space between the shaft and ceiling, so that he could hardly have struck anything in going around. He was conveyed to the Boston Emergency Hospital, where he died of a fractured skull, October 11. It is supposed that the injury to Olson was caused by the fall.

WILLIAM H. O'CONNOR, Peabody. A. C. Townsend & Co. Date of accident, October 30. O'Connor stopped the machine upon which he was working to clean it, and undertook to slip the belt off the small pulley on the shaft instead of shifting it to the dead pulley on the measuring machine. In making the attempt his arm must have been caught in the pulley, and he was drawn over the shafting and wound around it. Before any assistance could be rendered, he was killed. There were no set screws on the shafting by which O'Connor's clothing could have been caught.

EDWIN F. WHITEMORE, Lynn. General Electric Company. Date of accident, October 31. Whittemore was employed as an apprentice in the arc lamp seating department in factory C, having been in this department about four weeks. He was at work on a staging about seven feet from the floor, said staging being built of timber, with planks laid across, and electric wires coming up through the horizontal timbers and running up along the top of

said timbers. Whittemore had been putting new carbons in thirty-five arc lamps, which were suspended from the top of the room. Having completed this work, the current was turned on and in one of the lamps the carbons did not meet. He attempted to connect the carbons with his bare hands. To do this he had to reach some distance, and placed his left hand on the plank beyond the one upon which his feet were resting; losing his balance, he set his right foot on one of the wires, pressing it down upon the iron ring, and when he took hold of the carbon in the lamp for the purpose of pulling it down to connect with the lower carbon, he received the full force of the current and fell to the floor, where he was found dead.

LEWIS J. HUTCHINSON, Northampton. Northampton Electric Light Company. Date of accident, November 4. Hutchinson was superintendent of the above-named works. He was found lying on a brick floor near a line of shafting and friction clutch, dead. It is surmised that he went to the floor where a friction clutch had become heated. About three feet from this clutch was the main belt, some fifty-two and one-half inches in width and about twelve feet from the floor, travelling at a speed of some 4,712 feet per minute, horizontally towards the large fly wheel. It is presumed that Hutchinson smelled the smoke from the burning clutch, went down stairs, took an oil can to oil the clutch, crossed the bridge over the main belt from the inside next to the belt, and while doing so in some way was caught on the belt and thrown over on the same, carrying him around the fly wheel, striking and tearing up the floor near the wheel pit and landing him on the floor below. Another theory is that in some way Hutchinson was caught in the friction clutch and thrown over the same and killed. His skull was crushed and the bones in his body badly broken.

LEWIS GONNIER, Ashburnham. Massachusetts Car Company. Date of accident, November 4. This accident was caused by fall of elevator. This elevator is located on the outside of the building, with four openings, one from basement and one from each of the other floors; safety pawl and ratchet (supposed to be operated by spring), wire cable one inch in diameter. The spool or drum on which cable is wound was of wood, fastened to a three-inch shaft by a key twenty-one and one-half inches long, which from long usage had become loose and apparently had cut away the key seat both in shaft and flange. The drum or spool was twenty-two inches long, and fastened to the shaft on but *one end*. At the

time of accident the platform was loaded with about twelve hundred pounds of chair stock, besides car, making a total weight of two thousand pounds, and was at opening of third floor, about twenty-six feet from the ground. The drum ran loose on the shaft, and the friction no doubt prevented the pawl from being thrown out. Gonnier was passing from the yard to the basement through the main entrance to the same, directly under the elevator, and was crushed to death.

THOMAS H. CONLON, Lawrence. Pacific Print Works. Date of accident, November 15. This accident was caused by overpressure upon steam box used for steaming print cloths, bursting the steam box. These boxes are cylindrical, with flat cast-iron heads, stiffened by ribs, and over eight feet in diameter. Steam is supplied at sixty pounds pressure to the steam system, but throttled at box through a globe valve to maintain a uniform pressure in box of two pounds. The box is also provided with safety valve set to blow at two pounds; also a vacuum breaker. Conlon, the person killed, was one of a party of machinists engaged in tightening joints under pressure, the boxes being new. Pressure increased inside box and safety valve did not relieve the pressure, increasing until explosion blew flat head from chest. The safety valve was found to be overweighted to such an extent that pressure could not reach thirty pounds. It could not be ascertained who overweighted the safety valve. In the handling of these steam chests or boxes it appeared to be the duty of one man, not a machinist, to put the pressure upon the chest and to regulate it at the inlet valve. This man was called away from this work by the overseer some hours before, leaving the machinist at work at the chest. The men were cautioned not to commence on the next chest. There appeared to be a misunderstanding concerning this matter, the machinists acting only under the orders of their own overseer, and he had received no notice that the steam tender was taken off. It seems, however, that after the withdrawal of this steam tender the machinists looked out for the steam on the chest they were working on, and then started on the next chest and were at work upon it when it exploded, resulting in the killing of Conlon.

HORMEDOS COURNOYER, Chicopee. Springfield Provision Company. Date of accident, November 19. Cournoyer was employed as a laborer, and had been in the employ of the company about three months. He was at work on the fourth floor in a passageway, rolling a barrel from the lard-rendering room to the

passageway where the elevator was located. He gave the barrel a push, intending to cross the said passageway, but instead it turned, rolling towards the elevator well. Cournoyer then attempted to prevent it from going down the well, but in some way lost control of it and fell with the barrel down the elevator shaft, a distance of about fifty feet. He died soon after. The gate to the elevator well, it is said, was down, but Cournoyer and the barrel struck the gate with such force as to tear it from its fastenings.

DETECTIVE DEPARTMENT.

REPORT OF THE DETECTIVE DEPARTMENT.

SPECIAL DUTIES.

Officers of the force have been called upon for special duty at Concord, Acton, South Framingham, Marshfield, Duxbury, Lake Walden, Rockland, Plymouth, Marblehead, Manchester, Yarmouth, Boston, Essex, Worcester, Clinton, Sturbridge, Barnstable, Lawrence, West Tisbury, Taunton, Townsend, South Weymouth, Athol and Bolton.

ARRESTS.

Arrests have been made to the number of 561 ; total number of cases investigated, 1,235 ; total value of property recovered, \$7,729.02.

REPORTS OF OFFICERS, BY DISTRICTS.

Berkshire and Hampden Counties.

Officer Moses H. Pease. Total number of cases investigated, 224 ; total number of arrests, 174 ; total value of property recovered, \$575.

Among the most important cases investigated were the following : —

WILLIAM J. SMITH. Crime, larceny of team. Turned over to New York officers. Found guilty ; sentenced to State Prison.

JAMES H. BEVANS. Crime, larceny of team. Turned over to New York officers. Found guilty ; sentenced to State Prison.

MARTIN W. PIXLEY. Crime, attempt to commit abortion. Case now pending.

EBEN H. BURR. Crime, false pretences. Found guilty ; sentenced to pay a fine of \$80.

JOHN W. REAGAN. Crime, manslaughter. Discharged on the ground of self-defence.

ALBERT H. HURD. Crime, larceny of horse. Found guilty; sentenced as a common notorious thief to fifteen years in the Massachusetts State Prison.

JOHN H. BLINN. Crime, polygamy. Indicted and defaulted.

WILLIE C. MORRIS. Crime, receiving stolen property. Case now pending.

HERVEY B. BARTON. Crime, adultery. Found guilty; sentenced to the House of Correction.

SABINA BILLS. Crime, adultery. Found guilty; sentenced to the House of Correction.

REUBEN G. DANIELS. Crime, rape. Case now pending.

ROBERT H. JOHNSON. Crime, adultery. Case now pending.

MATHILDA MALLOY. Crime, adultery. Case now pending.

WILLIAM F. LINCOLN. Crime, larceny. Case now pending. Lincoln was arrested in the State of New York and brought back on requisition papers.

Barnstable, Bristol, Dukes and Nantucket Counties.

Officer George F. Seaver. Total number of cases investigated, 72; total number of arrests, 32; total value of property recovered, \$1,700.

Among the most important cases investigated were the following:—

MATHIAS J. CONROY. Crime, manslaughter. Case now pending.

JOHN F. MOYNEHAN. Crime, manslaughter. Case now pending.

GEORGE H. BRIGGS. Crime, rape. Found guilty. Sentenced to eight years in the Massachusetts State Prison.

SAMBRIL HARRIS. Crime, breaking and entering and larceny. Case now pending. Harris is charged with breaking and entering sixteen places in Bristol and Plymouth counties.

Officer Simeon F. Letteney. Total number of cases investigated, 98; total number of arrests, 39; total value of property recovered, \$1,175.

Among the most important cases investigated were the following:—

EBENEZER D. CHASE. Crime, breaking and entering. Found guilty; sentenced to ten years in the Massachusetts State Prison.

CLARENTON E. HIGGINS. Crime, breaking and entering. Found guilty; sentenced to six years in the Massachusetts State Prison.

JAMES S. KENDRICK. Crime, breaking and entering. Found guilty; sentenced to three years in the Massachusetts State Prison.

JACOB B. ALDRICK. Crime, breaking and entering. Found guilty; sentenced to three years in the Massachusetts State Prison.

LEWIS W. ROGERS. Crime, breaking and entering. Found guilty; sentenced to two years in the House of Correction.

JOSEPH AVENDO. Crime, adultery. Found guilty; sentenced to two years in the House of Correction.

JAMES S. PELES. Crime, rape. Found guilty; sentenced to five years in the House of Correction.

ALEX K. POCKETT. Crime, rape. Found guilty; sentenced to five years in the House of Correction.

WALLACE C. COOMBS. Crime, rape. Found guilty; sentenced to three years in the House of Correction.

CURTIS S. HIGGINS. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

JOHN SULLIVAN. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

JOHN M. HUTCHINGS. Crime, larceny of team. Found guilty; sentenced to six months in the House of Correction.

MILTON F. COLE. Crime, larceny of team. Found guilty; sentenced to the Massachusetts Reformatory.

DAVID C. STANFORD. Crime, indecent assault. Found guilty; sentenced to pay a fine of \$100.

JAMES F. HIGGINS. Crime, felonious assault. Found guilty; sentenced to pay a fine of \$100.

WILLIAM STURGIS. Crime, larceny. Found guilty; sentenced to pay a fine of \$30.

FRANK RUSSELL. Crime, larceny. Found guilty; sentenced to pay a fine of \$30.

GEORGE H. RUSSELL. Crime, breaking and entering. Found guilty; sentenced to three years in the House of Correction.

HOWARD F. NICKERSON. Crime, rape. Found guilty; awaiting sentence.

BENJAMIN WALKER. Crime, rape. Found guilty; awaiting sentence.

ANN E. BAKER. Crime, adultery. Case now pending.

SAMUEL SMALL. Crime, adultery. Case now pending.

Officer Thomas A. Dexter. Total number of cases investigated, 45; total number of arrests, 21; total value of property recovered, \$753.

Among the most important cases investigated were the following:—

JOSEPH F. SWIFT. Crime, assault and battery. Found guilty; sentenced to pay a fine of \$15.

MANUEL P. SILVA. Crime, violation of the lobster law. Found guilty; sentenced to pay a fine of \$55.

MANUEL F. FLORES. Crime, violation of the lobster law. Found guilty; sentenced to pay a fine of \$55.

FLORENCE E. JONES. Crime, larceny. Found guilty; sentenced to pay a fine of \$15.

HAROLD F. COLLINS. Crime, larceny. Found guilty; sentenced to pay a fine of \$23.

WALFRED CROWELL. Crime, larceny. Found guilty; case placed on file.

AUGUSTUS G. WESLEY. Crime, setting fire to building. Found guilty; sentenced to three years in the House of Correction.

JOHN E. SMITH. Crime, burglary. Awaiting trial.

Officer Daniel W. Hammond. Total number of cases investigated, 68; total number of arrests, 10; total value of property recovered, \$133.50.

Among the most important cases investigated were the following:—

FRANK HUNT. Crime, burglary. Found guilty; sentenced to twelve years in the Massachusetts State Prison.

JOSIAH L. JOHNSON. Crime, burglary. Found guilty; sentenced to twelve years in the Massachusetts State Prison.

FRANK LITTLE. Crime, burglary. Found guilty; sentence deferred.

WILLIAM W. HAM. Crime, conspiracy. Found guilty; sentenced to fifteen months in the House of Correction.

FRED H. CATE. Crime, conspiracy. Found guilty; sentenced to fifteen months in the House of Correction.

CHARLES A. KIMBALL. Crime, conspiracy. Found guilty; sentenced to fifteen months in the House of Correction.

FRED M. SMITH. Crime, conspiracy. Found guilty. Defaulted.

GEORGE O. TILTON. Crime, conspiracy. Found guilty. Defaulted.

HADLEY H. HOYT. Crime, conspiracy. Found guilty; sentence deferred.

JAMES WELCH. Crime, breaking and entering and larceny. Found guilty; sentenced under the habitual criminal act to twenty-five years in Massachusetts State Prison.

JAMES T. FISH, *alias* JAMES DONOVAN. Crime, larceny from person. Found guilty; sentenced to three years in the Massachusetts State Prison.

Officer George C. Neal. Total number of cases investigated, 75; total number of arrests, 28; total value of property recovered, \$569.

Among the most important cases investigated were the following:—

EDWARD F. FLYNN. Crime, embezzlement. Defaulted.

ELMER E. TERRIO. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

EDWARD J. FRANCIS. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

WILLIAM A. WOODWELL. Crime, breaking and entering. Found guilty; sentenced to four years in the Massachusetts State Prison.

EDWARD BUTLER. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

GEORGE A. BRADSTREET. Crime, breaking and entering. Found guilty; sentenced to two years in the House of Correction.

FRANK E. HILL. Crime, breaking and entering. Found guilty; sentenced to three years in the House of Correction.

HIRAM A. GAGE. Crime, receiving stolen property. Found guilty; sentenced to the Massachusetts Reformatory.

RALPH S. ELLIOTT. Crime, larceny. Awaiting trial.

JOHN H. MURPHY. Crime, selling mortgaged property. Defaulted.

AMOS B. RUSSELL. Crime, larceny. Awaiting trial.

Franklin and Hampshire Counties.

Officer Benson Munyan. Total number of cases investigated, 160; total number of arrests, 40; total value of property recovered, \$450.

Among the most important cases investigated were the following:—

GEORGE DICKEY. Crime, larceny. Found guilty; sentenced to two years and six months in the House of Correction.

NORMAN R. POIST. Crime, abuse of female child. Found guilty; sentenced to five years in the Massachusetts State Prison.

FRANK STANDISH. Crime, larceny. Found guilty; sentenced to two years in the House of Correction.

MYCHA FROCAS. Crime, breaking and entering. Found guilty; placed on probation.

PATRICK J. BRICK. Crime, breaking and entering. Awaiting trial.

MILO MARTIN. Crime, larceny from building. Found guilty; sentenced to eighteen months in the House of Correction.

DANIEL CAREY. Crime, adultery. Awaiting trial.

LILLIAN GOODENOUGH. Crime, adultery. Awaiting trial.

Middlesex County.

Officer Josiah A. Bean. Total number of cases investigated, 135; total number of arrests, 94; total value of property recovered, \$1,137.50.

Among the most important cases investigated were the following:—

PHILANDER B. HALL. Crime, forgery. Found guilty; sentenced to four years in the House of Correction.

GEORGE A. HODGNEY. Crime, breaking and entering. Found guilty; sentenced to fifteen months in the House of Correction.

WILLIS A. FLINT. Crime, breaking and entering. Found guilty; sentenced to fifteen months in the House of Correction.

FRED F. WATERHOUSE. Crime, larceny. Found guilty; sentenced to the Massachusetts Reformatory.

JAMES McCLEARY. Crime, breaking and entering. Found guilty; sentenced to two years and six months in the House of Correction.

JOHN W. SNOW. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts Reformatory.

BURTON C. STEPHENSON. Crime, breaking and entering. Found guilty; sentenced to eighteen months in the House of Correction.

WILLIAM B. UNDERWOOD. Crime, breaking and entering. Found guilty; sentenced to one year in the House of Correction.

JOHN COWHEY. Crime, larceny of horse. Found guilty; sentenced to eighteen months in the House of Correction.

EDWARD F. MINON. Crime, larceny of horse. Found guilty; sentenced to one year in the House of Correction.

MARY KEHOE. Crime, lewdness. Found guilty ; sentenced to one year in the Reformatory Prison for Women.

JAMES SHAY. Crime, breaking and entering. Awaiting trial.

GEORGE SMITH. Crime, breaking and entering. Awaiting trial.

WILLIAM C. HALL. Crime, forgery. Awaiting trial.

ANGELO S. SCHRODER. Crime, larceny of horse. Awaiting trial.

CHARLES E. MCGREGOR. Crime, larceny from building. Awaiting trial.

JOHN C. NEWCOMB. Crime, larceny from building. Awaiting trial.

LOUIS RUBEN. Crime, larceny of horse. Awaiting trial.

JULIUS RUBEN. Crime, larceny of horse. Awaiting trial.

GEORGE MAHONEY. Crime, assault with intent to commit rape. Awaiting trial.

DANIEL T. YOUNG. Crime, assault with a dangerous weapon. Awaiting trial.

JOHN F. GRIFFIN. Crime, larceny. Found guilty ; sentenced to pay a fine of \$50.

ROBERT RAY. Crime, larceny. Found guilty ; sentenced to pay a fine of \$50.

Officer Jophanus H. Whitney. Total number of cases investigated, 93 ; total number of arrests, 32 ; total value of property recovered, \$610.

Among the most important cases investigated were the following :—

THOMAS KAIN. Crime, manslaughter. Found guilty, sentenced to seven years in the Massachusetts State Prison.

PATRICK KAIN. Crime, manslaughter. Indicted. Found guilty of assault and battery.

CHARLES M. BEARCE. Crime, embezzlement. Made restitution ; case *not pros'd*.

HARRY SPENCE. Crime, breaking and entering. Found guilty ; placed on probation.

FRANK E. HILL. Crime, breaking and entering. Found guilty ; sentenced to the Massachusetts Reformatory.

CHARLES W. SANFORD. Crime, embezzlement. Awaiting trial.

ROBERT HODGES. Crime, larceny. Found guilty ; sentenced to the Massachusetts Reformatory.

EDWIN V. CALDWELL. Crime, larceny. Found guilty ; made restitution ; placed on probation.

SYLVANUS VINES. Crime, breaking and entering. Found guilty; sentenced to the Massachusetts State Prison.

CHARLES A. LEONARD. Crime, arson. Awaiting trial.

NELLIE FORSYTH, *alias* LENA ARRELS. Crime, larceny. Found guilty; sentenced to the Reformatory Prison for Women.

HUGH T. GORMAN. Crime, breaking and entering; three counts. Awaiting trial.

JOHN SPRAKES, Sr. Crime, arson. Case pending.

Norfolk and Plymouth Counties.

Officer George C. Pratt. Total number of cases investigated, 87; total number of arrests, 38; total value of property recovered, \$275.

Among the most important cases investigated were the following: —

WILLIAM MCGINNISS. Crime, forgery. Found guilty; sentenced to three years in the Massachusetts State Prison.

JOHN F. MURPHEY. Crime, larceny. Found guilty; sentenced to the House of Correction.

Dr. HENRY GALE. Crime, abortion. Awaiting trial.

JOHN N. JAQUITH. Crime, embezzlement. Found guilty; sentenced to the Massachusetts Reformatory.

THOMAS S. WALKER. Crime, forgery. Found guilty; placed on probation.

JOHN T. ALLEN. Crime, larceny. Found guilty; sentenced to the Massachusetts Reformatory.

DAVID W. CAMMERON. Crime, larceny. Found guilty; sentenced to the Massachusetts Reformatory.

HORATIO CAMMERON. Crime, larceny. Found guilty; sentenced to the House of Correction.

CHARLES WILSON. Crime, larceny from person. Awaiting trial.

WILLIAM J. QUIGLEY. Crime, breaking and entering. Awaiting trial.

LAWRENCE W. WITHERELL. Crime, highway robbery. Awaiting trial.

JAMES CALLAHAN. Crime, highway robbery. Awaiting trial.

JAMES E. ENGLISH. Crime, highway robbery. Awaiting trial.

RICHARD I. DAVIDSON. Crime, highway robbery. Awaiting trial.

Suffolk County.

Officer Frederick A. Rhoades, detailed for duty at headquarters. Total number of cases investigated, 55; total number of arrests, 12; total value of property recovered, \$76.02.

Among the most important cases investigated was the following:—

JOHN BRIGANDI. Crime, assault with intent to kill. Found guilty; sentenced to two years in the House of Correction. Brigandi was arrested in Montreal, Canada, and brought back on extradition papers.

Worcester County.

Officer Peleg F. Murray. Total number of cases investigated, 62; total number of arrests, 14; total value of property recovered, \$275.

Among the most important cases investigated were the following:—

THOMAS MURTHA. Crime, breaking and entering. Found guilty; sentenced to eighteen months in the House of Correction.

FRANK RILEY. Crime, breaking and entering. Found guilty; sentenced to one year in the House of Correction.

JAMES BROWNING. Crime, breaking and entering. Found guilty; sentenced to one year in the House of Correction.

AUGUSTUS W. ROBINSON. Crime, rape. Pleaded guilty to indecent assault; sentenced to one year in the House of Correction.

ADA CHAMBERLAIN. Crime, concealing birth of child. Found guilty; placed on file.

DANIEL BRANDANE. Crime, assault with a dangerous weapon. Found guilty; sentenced to pay a fine of \$50.

JOBAMMIA SACHENDO. Crime, assault with intent to kill. Awaiting trial.

FRED BEDARD. Crime, larceny. Found guilty; sentenced to the Massachusetts Reformatory.

ARAD TAYLOR. Crime, murder. Adjudged insane, and committed to the asylum.

JAMES BROWN. Crime, forgery and larceny. Found guilty; awaiting sentence.

FREDERICK STRATTON. Crime, manslaughter. Awaiting trial.

SPECIAL DUTY.

By authority of chapter 389 of the Acts of 1888, William H. Proctor was appointed an additional district police officer, and it was made my duty, upon said appointment, to detail him for service under the direction of the Commissioners on Inland Fisheries and Game. For purposes of record I herewith append his report, relating to the operations of the fish and game laws, which it is his special duty to enforce : —

REPORT OF OFFICER WILLIAM H. PROCTOR.

Total number of cases investigated, 61 ; total number of arrests, 17 ; amount of fines imposed, \$705 ; number of short lobsters seized, 21,204 ; number of egg-bearing lobsters seized, 300 ; number of lobster eggs planted, 9,000,000 ; blanks furnished to fishermen and returned by them, 1,000. I have also patrolled Buzzard's Bay in the steamer " Ocean Gem " one hundred and seven days.

CONSOLIDATED STATISTICAL REPORT.

Abortion,	2	Indecent exposure of person,	2
Adultery,	14	Insanity,	1
Arson,	2	Keeping a disorderly house,	1
Assault and battery,	48	Keeping gaming house,	1
Assault with dangerous weapon,	8	Larceny,	89
Assault with intent to kill,	4	Larceny from building,	3
Attempt to commit arson,	1	Larceny from person,	2
Attempt to commit larceny,	2	Larceny of team,	12
Attempt to commit rape,	2	Lewdness,	2
Attempt to procure abortion,	1	Malicious mischief,	8
Attempt to wreck railroad train,	1	Manslaughter,	4
Bastardy,	2	Murder,	6
Being present at cock fight,	4	Neglected children,	9
Breaking and entering,	68	Non-support of family,	7
Burglary,	5	Obtaining goods by false pretence,	5
Burning a building,	1	Obtaining money by false pretence,	2
Capias,	3	Perjury,	1
Carrying concealed weapons,	1	Polygamy,	1
Cruelty to animals,	4	Rape,	12
Defrauding hotel keeper,	3	Receiving stolen property,	4
Deserting from a vessel,	1	Selling lottery tickets,	1
Disturbing the peace,	75	Selling mortgaged property,	1
Doing business as a private detective without license,	1	Transfer of prisoners,	6
Embezzlement,	7	Vagrant,	1
Escaped prisoner,	3	Violation of fishery law,	5
Felonious assault,	1	Violation of game law,	8
Forgery,	3	Violation of the law in regard to the employment of labor,	10
Fornication,	7	Violation of the license law,	5
Highway robbery,	7	Violation of the liquor law,	44
Idle and disorderly,	1	Violation of the lobster law,	7
Illegal driving of team,	1	Violation of the Sunday law,	3
Illegal gaming,	3	Violation of ticket of leave,	1
Illegal peddling,	6	Walking on railroad track,	1
Incendiarism,	1		
Incest,	2		
Indecent assault,	1	Total,	561

ROSTER OF THE MASSACHUSETTS DISTRICT POLICE.

RUFUS R. WADE, *Chief.*

CENTRAL OFFICE: State House, entrance Derne Street, Boston.

BRANCH OFFICES: Fall River, Lowell, North Adams, Salem, Springfield and Worcester.

Department of Inspection, Workshops, Public Buildings and Uninsured Boilers.

Inspectors.

NAME.	District Assigned.	Residence.
Lewis F. F. Abbott,	District No. 5,	Worcester.
Henry J. Bardwell,	District No. 1,	Boston.
Edwin Y. Brown,	District No. 4,	East Boston.
Warren S. Buxton,	District No. 7,	Springfield.
Ansel J. Cheney,	District No. 8,	Beverly.
Joseph M. Dyson,	District No. 5,	Worcester.
Charles Ferguson,	Special duty,	Malden.
John E. Foulds,	District No. 6,	Fall River.
John E. Griffin,	Special duty,	Boston.
Joseph Halstrick,	District No. 2,	Boston.
Thomas Hawley,	Special duty,	Melrose.
James R. Howes,	District No. 10,	Holyoke.
John L. Knight,	District No. 7,	Springfield.
George A. Lord,	Special duty,	Springfield.
Frederick W. Merriam,	District No. 10,	North Adams.
Joseph A. Moore,	Districts Nos. 2, 3 and 6,	Roslindale.
Isaac S. Mullen,	District No. 3,	Boston.
James C. Murray,	District No. 1,	Charlestown.
John H. Plunkett,	Special duty,	Boston.
Edward B. Putnam,	District No. 8,	Chelsea.
John J. Sheehan,	District No. 9,	Salem.
Malcolm Sillars,	District No. 4,	Danvers.
Henry Splaine,	District No. 9,	Dorchester.
John F. Tierney,	District No. 6,	Fall River.
Frank C. Wasley,	District No. 11,	Lowell.
John T. White,	District No. 1,	Arlington.
John H. Wilson,	Special duty,	Jamaica Plain.
Fanny B. Ames,	Special duty,	Boston.
Mary E. Halley,	Special duty,	Lawrence.

Detective Department.

Josiah A. Bean,	Northern District,	Natick.
Thomas A. Dexter,	Southern District,	Edgartown.
Daniel W. Hammond,	Eastern District,	Haverhill.
Simcon F. Letteney,	Southern District,	Hyannis.
Benson Munyan,	North-western District,	Northampton.
Peleg F. Murray,	Middle District,	Worcester.
George C. Neal,	Eastern District,	Lynn.
Moses H. Pease,	Western District,	Lee.
George C. Pratt,	South-eastern District,	North Abington.
William H. Proctor,	Special duty,	Swampscott.
Frederick A. Rhoades,	Suffolk County,	Malden.
George F. Seaver,	Southern District,	Taunton.
Jophanus H. Whitney,	Northern District,	Medford.

Clerk, JAMES P. CAMPBELL.

Assistant Clerk, JAMES W. HOIT.

Clerk of Storehouse, BELLE C. DAVIS.

Storehouse Employees, JOHN COUGHLAN and TERRANCE MCSWEENEY.

THE DISPOSITION OF FORFEITED LIQUORS.

Chapter 100, section 38, provides as follows : —

SECT. 38. Any liquors so forfeited shall, by the authority of the written order of the trial justice or court, be delivered to the chief of the district police. Said officer shall sell the same and pay over the net proceeds to the treasurer of the Commonwealth.

The Legislature of 1887 passed an act providing for the seizure of implements and furniture used in the illegal selling of intoxicating liquors, which is as follows : —

[CHAPTER 406.]

AN ACT PROVIDING FOR THE SEIZURE OF IMPLEMENTS AND FURNITURE
USED IN THE ILLEGAL SELLING OF INTOXICATING LIQUORS.

Be it enacted, etc. as follows :

SECTION 1. Section thirty of chapter one hundred of the Public Statutes is hereby amended by inserting after the word “contained” in the fifteenth line of said section the words : — and all implements of sale and furniture used in the sale of such liquor.

SECT. 2. Section thirty-three of chapter one hundred of the Public Statutes is hereby amended by inserting after the word “contained” in the third line of said section the words : — and all implements of sale and furniture used in the sale of such liquor.

SECT. 3. This act shall take effect upon its passage. [*Approved June 13, 1887.*]

In obedience to the above law, I have received from the officers of the Commonwealth all liquors, and the vessels containing the same, which have been delivered to me as having been seized and forfeited by virtue of said act, giving my receipt for the same.

I annex schedule showing the cities and towns from which the liquor has been received, and the quantity that has been turned over to me up to the present date.

Forfeited Liquors from Dec. 1, 1894, to Dec. 1, 1895.

CITY OR TOWN.	Number of Seizures.	SPIRITUOUS.				MALT.			
		Gallons.	Quarts.	Pints.	Gills.	Gallons.	Quarts.	Pints.	Gills.
Abington,	8	11	3	-	-	71	3	1	-
Amesbury,	9	9	3	-	0 $\frac{1}{2}$	32	2	1	-
Arlington,	1	1	1	-	-	-	-	-	-
Ashland,	1	-	-	-	0 $\frac{1}{2}$	2	2	-	-
Athol,	2	-	2	-	1	18	2	-	-
Attleborough,	7	4	3	1	2	14	2	-	-
Ayer,	1	-	1	-	-	-	-	-	-
Becket,	1	1	2	-	-	-	-	-	-
Berlin,	1	-	-	-	-	12	-	-	-
Beverly,	8	40	2	-	3	22	-	1	-
Blackstone,	1	3	1	1	-	30	-	-	-
Boston,	989	959	2	1	3	11,072	1	-	3
Boxford,	1	5	-	-	2	8	2	-	-
Braintree,	2	4	2	1	-	-	-	-	-
Bridgewater,	1	-	-	-	-	6	1	-	-
Brockton,	54	71	2	-	3	980	3	-	-
Brookfield,	1	-	-	1	-	-	-	-	-
Brookline,	2	-	2	1	-	4	1	-	-
Cambridge,	25	96	2	-	-	92	2	-	-
Chelsea,	37	19	3	-	3	83	3	-	2
Chester,	1	-	-	-	-	-	1	-	-
Chicopee,	5	1	1	1	2	64	3	1	-
Clinton,	3	26	2	-	-	4	-	-	-
Colrain,	1	-	-	1	-	2	-	1	-
Danvers,	6	-	1	1	-	23	1	1	-
Dedham,	1	-	-	-	-	15	1	-	-
Dennis,	2	4	3	1	2	-	-	-	-
Douglas,	4	1	3	1	2	1	3	-	-
Easthampton,	2	-	-	-	-	25	-	-	-
Easton,	2	1	3	-	-	4	1	1	-
Everett,	5	1	-	-	1	77	-	-	-
Fall River,	98	105	-	1	-	910	3	1	1
Fitchburg,	29	81	2	-	1	232	1	-	-
Foxborough,	3	1	1	-	-	3	2	-	-
Framingham,	20	25	1	1	0 $\frac{1}{2}$	137	-	1	-
Franklin,	3	2	1	1	-	33	-	-	-
Gardner,	1	-	-	-	-	1	-	-	-
Georgetown,	1	-	2	-	-	-	1	1	2
Hardwick,	4	7	3	1	-	30	2	-	-
Haverhill,	63	96	2	-	1 $\frac{1}{2}$	644	1	1	1
Hingham,	1	-	2	-	-	-	-	-	-
Holden,	1	-	-	-	-	8	2	-	-
Holyoke,	38	41	2	1	2	639	1	1	2
Hubbardston,	3	1	3	1	1	-	-	-	-
Hudson,	1	4	1	1	-	-	-	-	-
Hull,	9	3	1	1	3	74	-	1	-
Hyde Park,	4	5	1	1	-	77	2	1	-
Ipswich,	1	-	-	-	-	5	2	-	-
Lancaster,	2	-	-	1	3	14	-	-	-
Lawrence,	7	50	2	1	-	121	1	1	-

Forfeited Liquors, etc. — Continued.

CITY OR TOWN.	Number of Seizures.	SPIRITUOUS.				MALT.			
		Gallons.	Quarts.	Pints.	Gills.	Gallons.	Quarts.	Pints.	Gills.
Leicester,	6	2	2	1	2	11	2	1	—
Lenox,	3	—	—	—	2	400	3	—	—
Lowell,	58	97	1	—	2½	224	—	1	—
Lunenburg,	1	—	—	—	—	7	3	—	—
Lynn,	67	58	2	1	2	281	2	—	—
Malden,	83	38	—	1	3	558	1	—	3
Marblehead,	3	1	2	—	—	—	—	—	—
Marlborough,	17	20	3	—	—	33	1	1	1
Maynard,	3	1	—	—	—	61	1	1	—
Medfield,	3	41	1	—	2	10	—	—	—
Medford,	11	6	—	—	—	30	—	—	—
Medway,	5	3	3	—	—	42	2	—	—
Melrose,	3	3	2	—	—	9	1	—	—
Methuen,	4	3	—	—	—	6	—	—	—
Middleborough,	1	—	3	—	—	3	—	—	—
Middlefield,	1	—	—	—	—	3	—	—	—
Milford,	15	21	3	—	—	200	3	—	1
Millbury,	3	6	1	—	0½	—	—	—	—
Nahant,	1	2	—	1	—	19	1	1	—
Natick,	12	25	—	—	1½	46	1	—	0½
New Bedford,	11	268	1	1	3	162	1	1	—
Newton,	15	3	1	1	1	40	—	—	—
Northampton,	1	—	—	—	—	12	—	1	—
Northborough,	1	2	1	—	—	10	—	—	—
North Brookfield,	9	4	—	1	—	49	1	—	—
Norwood,	1	—	3	1	—	—	—	—	—
Orange,	1	1	1	—	2	3	—	—	—
Phillipston,	1	—	—	1	2	48	—	—	—
Plymouth,	3	10	2	1	—	60	—	—	—
Quincy,	1	—	—	—	0½	—	—	—	—
Randolph,	5	3	—	1	—	6	2	—	—
Reading,	1	16	1	—	1	30	—	—	—
Revere,	34	36	1	1	1½	236	1	—	2
Rockland,	11	15	3	—	—	757	3	—	—
Rockport,	4	2	2	—	0½	6	—	—	—
Salem,	20	21	1	1	3	101	—	1	—
Salisbury,	17	17	—	1	1	156	1	—	—
Saugus,	2	5	3	—	—	—	—	—	—
Scituate,	7	10	3	1	—	173	3	1	—
Sharon,	1	—	—	—	—	1	—	—	—
Shrewsbury,	4	4	—	—	—	117	—	—	—
Somerville,	36	53	1	—	2	246	2	—	3
Southborough,	1	3	1	—	—	18	—	—	—
Southbridge,	2	—	3	1	—	10	2	—	—
Spencer,	16	4	2	1	2	36	2	—	—
Springfield,	3	8	—	—	—	71	—	—	—
Stoneham,	1	10	—	—	—	—	—	—	—
Stoughton,	7	19	1	—	1½	2	1	—	1
Sutton,	1	1	1	—	—	18	—	—	—
Swampscott,	4	—	—	—	—	78	—	—	—

Forfeited Liquors, etc. — Concluded.

CITY OR TOWN.	Number of Seizures.	SPIRITUOUS.				MALT.			
		Gallons.	Quarts.	Pints.	Gills.	Gallons.	Quarts.	Pints.	Gills.
Taunton, . . .	13	19	2	—	2	94	1	—	—
Templeton, . . .	3	—	1	1	2 $\frac{1}{2}$	53	2	—	2
Townsend, . . .	1	—	—	—	—	30	—	—	—
Uxbridge, . . .	1	—	—	—	—	4	2	—	—
Ware, . . .	3	5	—	—	2	34	—	—	2
Warren, . . .	6	—	—	1	2	40	—	1	—
Watertown, . . .	8	4	2	1	—	152	2	—	2
Wayland, . . .	3	1	1	—	—	13	—	—	—
Wellfleet, . . .	3	2	—	—	—	—	3	1	—
Westfield, . . .	2	—	—	—	—	5	2	—	—
Westford, . . .	1	—	3	—	—	14	—	—	—
Weymouth, . . .	18	12	—	—	2	41	3	1	3
Whitman, . . .	3	3	3	—	—	27	2	—	—
Winchendon, . . .	5	—	2	1	—	22	3	—	—
Winchester, . . .	7	4	2	1	—	15	2	1	—
Woburn, . . .	30	2	3	—	1	395	1	1	—
Worcester, . . .	105	31	1	1	—	620	3	—	—
Wrentham, . . .	1	—	—	1	—	—	—	1	—
Total, . . .	2,206	2,647	—	1	1	11,570	3	—	—

Liquors and vessels containing the same, that have been seized and forfeited by virtue of said act, I have sold, and have paid to the treasurer of the Commonwealth the sum of \$2,500, received from such sales.

Appropriations and Expenditures.

	Appropriations.	Expenditures.
Compensation of officers,	\$65,400 00	\$64,124 86
Travel,	20,800 00	18,666 32
Contingent,	2,000 00	1,814 36
	\$88,200 00	\$84,605 54
Amount expended less than appropriations,	—	3,594 46

Amount received through boiler inspection department, as fees for examination of engineers and inspection of boilers, and paid into the State treasury, \$15,263

CONCLUSION.

It has been my sincere endeavor to present a clear and full statement of the services rendered by the district police for the year 1895. I have endeavored to present a complete record of the department, and I have added statistical tables which comprise those details which can be given in no better way. I am under obligations to the law department of the State government, and I beg the privilege of placing upon record my sense of indebtedness to the Honorable the Attorney-General and his assistants, who have kindly advised me when I have sought their counsel.

Respectfully submitted,

RUFUS R. WADE,
Chief Massachusetts District Police.

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